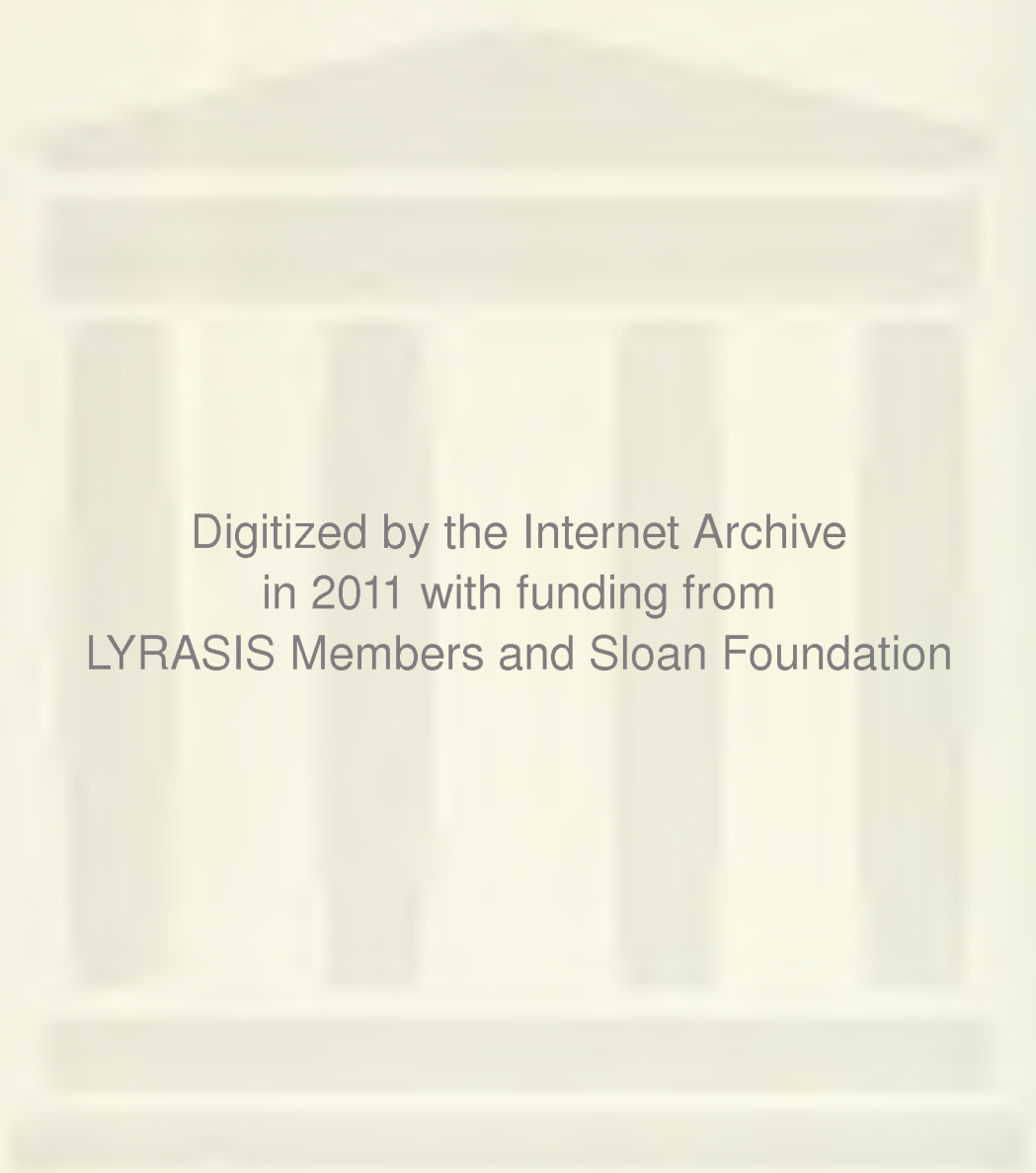




Undergraduate Catalog

**Ohio
University**



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Ohio University Undergraduate Catalog 1994-95

The fees, programs, and requirements contained in this catalog are effective with the 1994 fall quarter. They are necessarily subject to change at the discretion of Ohio University. It is the student's responsibility to know and follow current requirements and procedures at the departmental, college, and University levels. Ohio University is fully accredited by the North Central Association of Colleges and Schools at the bachelor's, master's, and doctoral levels. In addition, numerous departments, schools, and colleges within the University hold individual accreditation from their professional accrediting agencies.

Ohio University is an affirmative action institution.

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Ohio University Mission Statement

Ohio University is a public university providing a broad range of educational programs and services. As an academic community, Ohio University holds the intellectual and personal growth of the individual to be a central purpose. Its programs are designed to broaden perspectives, enrich awareness, deepen understanding, establish disciplined habits of thought, prepare for meaningful careers and, thus, to help develop individuals who are informed, responsible, productive citizens.

Undergraduate Education

Ohio University offers undergraduate instruction on both the Athens campus and the regional campuses. Undergraduate programs, designed to contribute to intellectual and personal development and career goals of students, emphasize liberal studies.

Undergraduate major programs, preprofessional, and professional programs prepare students for employment in a variety of careers and for continued study. Two-year technical and associate degree programs, reflecting employment opportunities, as well as the general career interests of students, are taught primarily at the regional campuses.

At the Athens campus, instruction is combined with residence life and other extracurricular programs in an effort to create a collegiate experience integrating learning and living.

Graduate and Professional Education

Ohio University offers graduate and professional education. The primary forms of activity are advanced and specialized courses of study, supervised practical experience, and research.

The essential concentration of faculty, material, and space resources dictates that the activity associated with graduate and professional education will be centered on the Athens campus. This activity is not limited to that campus; research and instruction are carried out at various locations.

Scholarship, Research, and Creative Activity

Ohio University is a center for scholarship, research, and creative activity involving the creation, testing, and dissemination of knowledge, understanding, expressions, and technique.

As a public university, Ohio University has a particular responsibility to address societal issues and needs through such scholarship, research, and creative activity. The scholarly and artistic activity of the faculty enhances the teaching function at all levels of the student experience.

Extended Community

Ohio University serves an extended community. The public service mission of the University, expressed in such activities as public broadcasting and continuing education programs, reflects the responsibility of the University to serve the ongoing educational needs of the region. The regional campuses perform a critical role in serving this extended community.

The University has state-wide responsibility for an extended university program using independent study through correspondence.

It is the purpose of these extended university programs to serve a diverse range of educational needs, from professional groups requiring continuing courses of study related to the practice of their professions, to individuals desiring occasional or special interest study.

By service to the extended community, Ohio University contributes to cultural and economic development, health care, and to other human services.

Adopted January 15, 1977; reaffirmed January, 1988.

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Telephone Numbers

The University Switchboard number is
614.593.1000.
All campus numbers are preceded by 614.593.

Student Services

- 4100 Admissions
- 1174 Athletic Department
- 4130 Bursar
- 4124 Cashier
- 2620 Disability Services
- 4141 Financial Aid and Scholarships
- 4090 Housing
- 1660 Hudson Health Center
- 4027 Multicultural Programs
- 4191 Registrar's Office
- 4028 Student Activities
- 4186 Veterans Affairs

Colleges

- 2850 Arts and Sciences
- 2052 Business Administration
- 4884 Communication
- 4400 Education
- 1474 Engineering and Technology
- 1808 Fine Arts
- 2126 Health and Human Services
- 2723 Honors Tutorial College
- 1935 University College

Academic Calendar, 1994-95

Fall Quarter 1994

august

10, Wed Payment deadline for students on Monthly Payment Plan (1st payment for fall quarter)

12, Fri Last day to pay fees for fall quarter (to ensure preregistration)

september

5, Mon Residence halls officially open at 10 a.m.

6, Tue Orientation begins for all new freshmen and transfer students not attending summer Precollege

7, Wed Advising Day/Registration Day; first meal served on board plan (breakfast)

8, Thu Classes begin — Athens and regional campuses

9, Fri Payment deadline for students on Monthly Payment Plan (2nd payment for fall quarter)

15, Thu Last day for filing application and paying fee for conferral of degree on November 23

21, Wed Last day to register without late fee; last day to receive partial refund of registration fees (80%); last day to register for pass/fail course through your dean's office; last day to drop/add using TRIPS

22, Thu Courses dropped will not remove fees for hours dropped; courses added will add fees, when applicable; first day for WP/WF

22-30 Late Registration and/or Fee Payment Penalty — \$40

october

1, Sat Parents Day (football with Toledo); Honors Convocation for undergraduate scholarship students and parents

3-7 Late Registration and/or Fee Payment Penalty—\$60

10, Mon Payment deadline for students on Monthly Payment Plan (3rd payment for fall quarter)

10-14 Late Registration and/or Fee Payment Penalty — \$80

12, Wed Last day to drop a class by change order through your dean's office

15, Sat Homecoming (football with Miami)

17, Mon Academic advising begins (winter quarter preregistration)

17-21 Late Registration and/or Fee Payment Penalty — \$100

19, Wed Last day for removing incomplete grades incurred during last session enrolled

22, Fri Last day that registration for fall quarter will be processed or accepted; winter quarter preregistration begins

november

10, Thu Payment deadline for students on Monthly Payment Plan (1st payment for winter quarter)

11, Fri Veterans Day holiday observed (University offices officially closed; classes in session)

15, Tue Last day to withdraw from the University for fall quarter

16, Wed Last day of classes

17, Thu Reading Day

18, Fri Examinations begin

23, Wed Quarter Closing Date; last meal served on board plan (lunch); residence halls close at 5 p.m.

24, Thu Thanksgiving Day (University closed)

25, Fri Columbus Day holiday observed (University closed)

28, Mon Deadline for all grades, including pending grades from previous quarters for degree candidates

december

1, Thu Last day to pay fees for winter quarter (to ensure preregistration)

9, Fri Payment deadline for students on Monthly Payment Plan (2nd payment for winter quarter)

23, Fri Martin Luther King Day holiday observed (University closed)

26, Mon Christmas Day holiday observed (University closed)

30, Fri Presidents Day holiday observed (University closed)

january

2, Mon New Year's Day holiday observed (University closed)

Winter Quarter 1995

2, Mon Residence halls open 2 p.m. - 5 p.m. for new students

3, Tue Residence halls open at 8 a.m.; new student orientation begins at 10 a.m.; Advising Day/Registration Day

4, Wed Classes begin — Athens and regional campuses; first meal served on board plan (breakfast)

10, Tue Payment deadline for students on Monthly Payment Plan (3rd payment for winter quarter)

12, Thu Last day for filing application and paying fee for conferral of degree on March 18

16, Mon Martin Luther King Day — All University offices open; employees' paid holiday was December 23.

Note: Scheduled classes are to be cancelled. The only classes to be held are those that represent an entire week of class time, e.g., classes where the only meeting time for the entire week is on Monday. These classes meet as scheduled, but it is expected that at least one hour of the class period be devoted to discussion of the life, teachings, and philosophy of Dr. King (preferably as these relate to the subject material of the class)

17, Tue Last day to register without late fee; last day to receive partial refund of registration fees (80%); last day to register for pass/fail course through your dean's office; last day to drop/add using TRIPS

18, Wed Courses dropped will not remove fees for hours dropped; courses added will add fees, when applicable; first day for WP/WF

18-27 Late Registration and/or Fee Payment Penalty — \$40

27-29 Siblings Weekend

Jan 30-Feb 3 Late Registration and/or Fee Payment Penalty — \$60

february

6-10 Late Registration and/or Fee Payment Penalty — \$80

7, Tue Last day to drop a class by change order through your dean's office

10, Fri Payment deadline for students on Monthly Payment Plan (1st payment for spring quarter)

13-17 Late Registration and/or Fee Payment Penalty — \$100

14, Tue Last day for removing incomplete grades incurred during last session enrolled

17, Fri Last day that registration for winter quarter will be processed or accepted

march

1, Wed Last day to pay fees for spring quarter (to ensure preregistration)

3-5 Dads Weekend

10, Fri Payment deadline for students on Monthly Payment Plan (2nd payment for spring quarter); last day to withdraw from the University for winter quarter

11, Sat Last day of classes

13, Mon Examinations begin

17, Fri Last meal served on board plan (dinner)

18, Sat Quarter Closing Date; residence halls close at 2 p.m.

20, Mon Deadline for all grades, including pending grades from previous quarters for degree candidates

Spring Quarter 1995

26, Sun Residence halls open at 10 a.m.; new student orientation begins at 12:30 p.m.

27, Mon Advising Day/Registration Day; first meal served on board plan (breakfast)

28, Tue Classes begin — Athens and regional campuses

april

4, Tue Last day for filing application and paying fee for conferral of degree on June 9-10

10, Mon Last day to register without late fee; last day to receive partial refund of registration fees (80%); last day to register for pass/fail course through your dean's office; last day to drop/add using TRIPS; payment deadline for students on Monthly Payment Plan (3rd payment for spring quarter)

11, Tue Courses dropped will not remove fees for hours dropped; courses added will add fees, when applicable; first day for WP/WF

11-21 Late Registration and/or Fee Payment Penalty — \$40

24-28 Late Registration and/or Fee Payment Penalty — \$60

28-30 Moms Weekend

may

1, Mon Last day to drop a class by change order through your dean's office

1-5 Late Registration and/or Fee Payment Penalty — \$80

8, Mon Last day for removing incomplete grades incurred during last session enrolled

8-12 Late Registration and/or Fee Payment Penalty — \$100

12, Fri Last day that registration for spring quarter will be processed or accepted

29, Mon Memorial Day holiday observed (University offices officially closed; classes not in session)

june

- 1, Thu** Last day to pay fees for summer quarter (to ensure preregistration)
- 2, Fri** Last day to withdraw from the University for spring quarter
- 3, Sat** Last day of classes
- 5, Mon** Examinations begin
- 9, Fri** Annual Graduate Commencement
- 10, Sat** Quarter Closing Date; Annual Undergraduate Commencement; last meal served on board plan (breakfast); residence halls close at 5 p.m.
- 13, Tue** Deadline for all grades, including pending grades from previous quarters for degree candidates

Summer Sessions 1995 First Term

- 11, Sun** Residence halls open at 9 a.m.; new student orientation begins at 11 am
- 12, Mon** Registration Day; classes begin; first meal served on board plan (breakfast)
- 15, Thu** First-term students should apply and pay fee for conferral of undergraduate and graduate degrees for summer session (August 19); final deadline for applying is July 20
- 16, Fri** Last day to register for first five-week term; last day to receive partial refund of registration fees (80%) for first five-week term; last day to register for pass/fail course through your dean's office; last day to drop/add using TRIPS
- 19, Mon** Courses dropped will not remove fees for hours dropped; courses added will add fees, when applicable; first day for WP/WF
- 23, Fri** Last day to receive partial refund of registration fees (80%) for ten-week courses
- 27, Tue** Last day to drop a class for first term by change order through your dean's office

july

- 4, Tue** Independence Day observed (University offices officially closed; classes not in session)
- 13, Thu** Last day to withdraw from first summer term
- 14, Fri** Last day to drop a ten-week course; last day of classes/examinations
- 15, Sat** Term closing date; first-term-only residents must vacate residence halls by 2 pm
- 17, Mon** Deadline for all grades, including pending grades from previous quarters for degree candidates

Second Term

- 16, Sun** Residence halls open at 10 a.m. for second-term students; new student orientation begins at 12:30 p.m.
- 17, Mon** Registration Day; classes begin
- 20, Thu** Last day for filing application and paying fee for conferral of undergraduate and graduate degrees on August 19
- 21, Fri** Last day to register for second five-week term; last day to receive partial refund of registration fees (80%) for second five-week term; last day to register for pass/fail course through your dean's office
- 24, Mon** Courses dropped will not remove fees for hours dropped; courses added will add fees, when applicable; first day for WP/WF

august

- 1, Tue** Last day to drop a class for second term by change order through your dean's office
- 17, Thu** Last day to withdraw from second summer term
- 18, Fri** Last day of classes/examinations; last meal served on board plan (dinner)
- 19, Sat** Quarter Closing Date; residence halls close at 2 p.m. for summer sessions
- 21, Mon** Last day for removing incomplete grades incurred during last session enrolled; deadline for all grades, including pending grades from previous quarters for degree candidates

Guidelines and General Information

Admissions

The following paragraphs outline general information about applying for admission to Ohio University. If you would like to receive more specific information, as well as application materials, contact the Office of Admissions, Ohio University, Chubb Hall 120, Athens OH 45701-2979, or call 614-593-4100 from 8 a.m. to 5 p.m. eastern time, Monday through Friday (FAX number: 614-593-0560; E-Mail: UGADMISSION@OUVAXA.CATS.OHIOU.EDU).

Admission Requirements and Procedures

Selective and Limited Admission

If you are planning to apply to Ohio University, please note that admission is selective—admission is granted to the best qualified candidates. Also, keep in mind that admission to the University does not guarantee admission into a specific program of study. Please consult the specific academic department or the Office of Admissions for details regarding limited and selective admission policies.

If you are considering applying for admission to Ohio University, we recommend that your high school background include the following courses:

Four years of English, with an emphasis on composition

Three years of mathematics (algebra I, algebra II, plane geometry; pre-calculus is encouraged for prospective engineering or business majors), one of which should be taken in the senior year

Three years of social sciences (history, social studies, etc.)

Three years of natural sciences (physics is encouraged if you are planning to pursue an engineering major)

Two years of foreign language

One year of visual and performing arts (art, band, chorus, music, orchestra, theater, etc.)

Categories of Admission

Freshman Applicant. If you (1) soon will receive a high school diploma or a GED equivalency certificate, and (2) have not been enrolled for 12 or more hours of coursework at a college or university, you are considered a freshman applicant. You must have a high school diploma or a General Educational Development (GED) High School Equivalent Certificate by the time you plan to enter college. Consideration for admission is based upon your high school performance (class rank, grade-point average, and curriculum), aptitude test scores (ACT or SAT), strength of the high school program, and special ability, talent, or achievement.

Please note that even if you earned credit for college courses through one of the Post-Secondary Options or other concurrent enrollment programs, as a high school student, you are still considered to be a freshman applicant when applying for admission to Ohio University.

To apply, you will need to submit a completed Application for Admission form (included in the current *Application Bulletin*), the nonrefundable \$25 application fee, ACT or SAT scores, and an official high school transcript (sent directly to the Office of Admissions from the high school) or GED score report (sent directly to the Office of Admissions from the appropriate state GED office, official testing center, or GED Testing Service).

If you are financially disadvantaged, the \$25 application fee may be waived upon written recommendation from your high school guidance counselor.

Beginning in October and continuing through April, those of you who have submitted completed application materials will be notified of your admission status for fall quarter. Admission decisions and notification are made on a rolling basis for all other quarters. Following acceptance for admission, you will receive information about financial aid and a residence hall contract and agreement form. Since all freshmen are required to live in University housing, you should submit the \$100 residence hall deposit by May 1 to reserve your place for fall quarter. You and your parents will also receive an invitation and details about the precollege orientation-registration program for entering students.

Transfer Applicant. All campuses of Ohio University consider you to be a transfer applicant if you have registered for 12 or more hours at another institution. However, to be considered for transfer admission at the Athens campus of Ohio University, you must complete at least 30 quarter hours (20 semester hours) of transferable credit, with a minimum of a 2.5 cumulative grade-point average (g.p.a.) on a 4.0 scale, from a regionally accredited university.

If you wish to transfer from an institution without regional accreditation, you may be required to have a g.p.a. substantially above a 2.5. Various colleges and programs at Ohio University have additional requirements for transfer student admission, including a g.p.a. higher than 2.5. Please refer to the Colleges and Curricula section of this catalog for each college's or school's specific requirements. *Since most of our programs and procedures are set up to begin fall quarter, you are strongly encouraged to apply for that term.*

To apply, you will need to submit a completed Application for Admission form (included in the current *Transfer Application Bulletin*) and the nonrefundable \$25 application fee. You must also arrange for official transcripts to be sent directly to the Office of Admissions from the registrar at each college or university you have attended. Since all students seeking admission to a degree-granting college must have graduated from an accredited high school or have an equivalency certificate, you may be requested to provide a final high school transcript and/or GED certificate.

Space is available in University residence halls for transfer students, and shortly after you have been accepted for admission, you will receive a housing contract in the mail from the Housing Office.

International Applicant. If you are a citizen of another country, you will be considered for admission as an international applicant. Admission requirements include a secondary education diploma or its equivalent, as well as an excellent academic record.

You should plan to apply for admission at least five months before the date you wish to enter Ohio University. To apply, you will need to submit to the Director of Admissions an International Student Application for Admission (along with the \$25 nonrefundable application fee), secondary school transcripts, academic test results, records of any university-level work, a short statement of your academic and career goals, and a completed affidavit of financial support. Please note that all documents, including test results, must be submitted in English and certified as true copies.

If you are accepted for admission, you will be required to take an English placement test when you arrive on campus to determine if you will need additional English language instruction (provided by Ohio University's Ohio Program of Intensive English). If you do, you may have to delay registering for regular classes until your English skills have improved enough to assure your success in the classroom.

Upon being admitted, you will receive the appropriate materials to use for securing your student visa. A few weeks later, you will receive a housing contract, which you should complete and return to the Housing Office at least six weeks prior to your arrival on campus.

International student application materials may be obtained from the Office of Admissions, Ohio University, Chubb Hall 120, Athens OH USA 45701-2979, telephone 614-593-4100. Further information about services for international students is available from the Office of International Student and Faculty Services, Ohio University, Scott Quad, Athens OH USA 45701-2979, telephone 614-593-4330.

High School Enrollment Options Applicant.

If you are a high school student, you may enroll in University classes concurrently with your high school enrollment to earn college credit or both high school and college credit. Students enrolling in the summer may pursue college credit only (Option A).

Those of you from area high schools within commuting distance to the University may be considered for enrollment under two options: (A) you enroll to receive college—and not high school—credit for courses, and you pay applicable fees; or (B) you enroll to receive both high school and college credit, and you are not required to pay for tuition and textbook fees. Additional information and application materials for these options are available from the Director of Admissions.

Please note that if you have taken college courses as a high school student under one of these options and plan to apply for admission to Ohio University as a full-time student, you will need to re-apply as a freshman applicant, not a transfer applicant, even though you have already earned college credit. Credit earned at Ohio University under these options will become part of your permanent record and will be figured into your accumulative grade-point average.

Early Admissions Applicant. Under special circumstances, Ohio University will consider admitting you as a regular University student after your junior year of high school, but prior to your high school graduation. As an early admissions applicant, you must submit a completed Application for Admission form (included in the current *Application Bulletin*), the nonrefundable \$25 application fee, your high school transcripts, ACT or SAT scores, a statement explaining your reasons for wanting to enroll, and a recommendation from your high school attesting to your readiness to begin collegiate studies. You will be required to earn your high school diploma or GED certificate by the beginning of your sophomore year in college to continue University enrollment. Additional information on this option is available from the Director of Admissions.

Re-Enrolling Student. If you have previously attended one of Ohio University's campuses, but are not currently enrolled (excluding summer quarter) and wish to return as an undergraduate student, you are considered a re-enrolling student. If you have been dropped from the University, you will need to apply to the college where you were last enrolled to be reinstated; if your records have been placed on hold, you will need to make arrangements to resolve the situation through the appropriate office before re-enrollment can be considered.

To receive information about registration, contact the Registrar's Office, 614-593-4191. If you have attended another college or university since you were last enrolled at Ohio University and wish to transfer credit earned, you will need to arrange to have a transcript sent to the Office of Admissions from each post-secondary institution you have attended.

Relocating Student. If you are currently attending one of Ohio University's regional campuses and wish to relocate to the Athens campus, you are considered to be a relocating student. Relocation is possible for any quarter, though you should have a g.p.a. of 2.0 or better to be eligible for relocation.

To apply, you will need to complete a relocating student card, available from the Registrar's Office or from the Student Services Office at your regional campus, and submit it to the Registrar's Office on the Athens campus.

Nondegree Student Applicant.

If you wish to carry a limited number of courses at the University and are not interested in earning a degree, you are considered to be a nondegree student applicant. To apply, you must complete a nondegree student application, available from the Office of Admissions. If you need to supply a transcript of previous coursework or any additional materials, the Office of Admissions will notify you regarding what is needed.

The University currently charges a \$15 nonrefundable application fee for nondegree applicants, though *summer-only* nondegree students are not charged for application. If you later wish to enter a degree-granting program, you will need to re-apply for admission.

Options For Receiving Credit

Several methods of receiving Ohio University credit for work previously completed or for general knowledge and experience are available through Ohio University. For further information on any of the following methods, contact the University Examiner, Ohio University, Chubb Hall, telephone 614-593-4119.

Credit for Advanced Placement (AP) and the College Level Examination Program (CLEP).

If you have taken examinations provided by the Advanced Placement (AP) program of the College Board and achieved a score of three or higher, you may be able to receive Ohio University credit and placement for your efforts. Scores must be sent directly from the College Board to the Office of Admissions.

Ohio University also participates in the College Level Examination Program (CLEP) sponsored by the College Board. Subject to approval by the appropriate department in each case, Ohio University will allow credit for satisfactory performance on the CLEP subject matter examinations, provided you take the

examinations before you formally enroll in the University. Please note that the University does not award any credit for scores achieved on the CLEP General Examinations.

Detailed information about both the AP and CLEP programs is available from high school guidance offices, from the Ohio University Office of Admissions, or by contacting the College Board, Box 593, Princeton NJ 08540.

Experiential Learning and Course Credit by Examination.

You also may be able to earn credit without attending formal classes through two programs offered through the University's Office of Lifelong Learning: Experiential Learning and Course Credit by Examination. Experiential Learning allows you to acquire credit for college-level experience gained through work, volunteer activities, or hobbies by compiling a portfolio of learning that is reviewed by an appropriate University faculty member and assigned a credit value. Course Credit by Examination allows you to study or review a given subject on your own. You are tested on the subject within six months of enrollment. A letter grade is assigned, and credit is awarded based on your performance on the examination. Further information on Experiential Learning is available from Adult Learning Services, telephone 614-593-2150; further information on Course Credit by Examination is available from the Office of Independent Study, telephone 614-593-2910. (See also the Office of Lifelong Learning section of this catalog.)

Credit for the International Baccalaureate (I.B.).

If you participated in this program as a high school student, you may be eligible for credit and/or placement. For further information, contact the Office of Admissions.

Credit for Armed Forces Courses.

Some courses provided by the Armed Forces are the equivalent of college courses, and transfer credit may be obtained by presenting certificates or a diploma describing the training received. *The Guide to the Evaluation of Educational Experience in the Armed Services*, published by the American Council on Education, is used to determine what credit might be granted. Blanket credit is not granted for military service, nor is credit granted for the Military Occupation Specialty (M.O.S.).

Credit for Training Programs.

Some courses offered by business and professional organizations are considered the equivalent of college courses, and transfer credit may be obtained, subject to department or school approval, by presenting transcripts or certificates of completion from the training program. The *National Guide*, published by the American Council on Education, is used to determine what credit might be granted.

Transferring Credit

General Information

All college-level credit earned with a grade of C- or higher at a regionally accredited institution is accepted as transfer credit at Ohio University and can be used to satisfy degree requirements in the same manner as credit earned at Ohio University. Remedial courses taken at the college or university level, however, are not transferable.

Normally, courses in which you have earned a D grade or lower are not acceptable for transfer. However, a course with a D grade will transfer if it meets the following two conditions: if the course was a specific prerequisite (as stated in the previous school's catalog) for a later course that you took in the same department, and if you earned a grade of C- or better in that later course. If you have coursework that meets these conditions, contact the Office of Admissions to arrange to receive credit.

If you have attended an institution that does not have regional accreditation, you may be required to have a g.p.a. substantially above 2.5 and may have only part, or in some cases none, of your previously earned credit accepted at Ohio University. Any credit earned at such an institution is accepted only provisionally and must be validated by your performance at Ohio University.

All grades for transfer credit are converted on your academic record to either a T grade symbol if credit has been equated to a specific Ohio University course, or a U symbol if credit has not been equated. The number of transferable quarter hours of credit is recorded on the academic record, but the grades you earned are not recorded. As a result,

if you are a transfer student, you enter Ohio University with no g.p.a. on your academic record. However, prior to your acceptance into certain programs, your overall g.p.a. earned at other institutions may be considered as part of the criteria for admission into those programs.

Shortly after you have been accepted for admission as a transfer student, the Office of Admissions will send a tentative transfer credit evaluation report.

If you have enrolled at one college or university with the intention of transferring to another institution at a later date, you should identify the receiving institution as soon as possible so that you can ensure the applicability of your current coursework to the general education and major requirements of the institution where you will be transferring.

The Transfer Module. The transfer module, recently established by the Ohio Board of Regents to help you avoid course requirement duplication when you transfer and to smooth the process of transferring from one Ohio institution to another, is a means by which you can complete a "core set" of courses at one institution and have them transferred as a unit to meet the requirements of the receiving institution.

In general, the transfer module is a set of courses (54-60 qtr. hrs. or 36-40 sem. hrs.) that most Ohio institutions have agreed upon as basic to a university-level education. The set includes English composition, mathematics, fine arts, humanities, social sciences, behavioral sciences, natural sciences, physical science, and interdisciplinary topics. A transfer module completed at one college or university will transfer in its entirety to the receiving institution, once you are accepted. Although the transfer module will meet many general requirements, you may be required to complete additional coursework.

Since some independent colleges and universities in Ohio may not be participating in the transfer module policy, you should check to see if the institution where you're currently enrolled has an agreement regarding the transfer module with the institution where you plan to transfer.

Consideration for Transfer

Module Admission. The following guidelines govern transfer module admission:

- 1 If you have completed the transfer module at another institution with an overall g.p.a. of 2.0 or higher and either the Associate of Arts or the Associate of Science degree, you are given *preferential consideration* for admission to Ohio University. Under this policy you will be able to transfer all courses in which you received a grade of D or better.
- 2 If you have completed the transfer module at another institution with a grade of C or better in each course and have completed 90 quarter hours or 60 semester hours, you are also given *preferential consideration* for admission to Ohio University. Only courses in which you have earned a C or better will transfer.
- 3 If you have completed the transfer module at another institution with a grade of C or better in each course and have completed less than 90 quarter or 60 semester hours, you will be given *nonpreferential consideration* for admission to Ohio University. Only courses in which you have earned a C or better will transfer.

Please be aware that admission as a transfer student to Ohio University does not guarantee your automatic admission to all majors, minors, or fields of concentration. Once admitted, you are subject to selective admissions requirements as determined by the individual college, school, department, or major program.

Transfer Module Recommendations for Transferring to Ohio

University. If you are currently enrolled at another institution, but plan to transfer to Ohio University, the following general guidelines for your first two years of coursework should be used in fulfilling the 54-60 quarter or 36-40 semester hours required by the transfer module:

- 1 A minimum of five quarter hours of English composition courses, with an emphasis on written composition.
- 2 A minimum of three quarter hours of mathematics or quantitative skills.

3 A minimum of nine quarter hours in arts or humanities.

4 A minimum of nine quarter hours from two areas in the social and behavioral sciences.

5 A minimum of nine quarter hours in the natural sciences, including at least one laboratory science course.

6 Additional elective courses to fulfill the 54-60 quarter or 36-40 semester hour requirement.

We recommend that you work closely with the transfer coordinator both at your current institution and at Ohio University to ensure that the specific courses you select under these general guidelines will fulfill the major and graduation requirements of the academic program you intend to pursue at Ohio University.

Transfer Module Recommendation for Transferring from Ohio University. If you are planning to transfer from Ohio University to another institution, the following guidelines should be followed in selecting courses to fulfill the 54-60 quarter hours required by the transfer module:

1 A minimum of five hours of English composition—complete one of the following courses: English 151, 152, 153

2 A minimum of three hours of mathematics or quantitative skills from the following courses:
Computer Science 220, 223, 230, 231, 238
Math 115, 118, 121, 122, 130, 163A-B, 211, 250A-B, 263A-B-C-D

3 A minimum of nine hours selected from at least two of the following areas:
African American Studies 110, 210, 211, 250
Art 100
Art History 211, 212, 213
Classical Languages in English 234, 235, 236, 237
Comparative Arts 117, 118, 211, 212, 213, 270, 271, 272
English 200, 201, 202, 203, 204, 205, 206, 210
Film 201, 202, 203
History 121, 122, 123

Humanities 107, 108, 109, 117
Music History and Literature 120, 124, 125
Philosophy 101, 130, 160, 216, 231, 232, 235, 240, 250, 260
Theater 171, 270, 271, 272
Women's Studies 100

4 A minimum of nine hours selected from at least two of the following areas:
African American Studies 101, 202
Anthropology 101, 202
Economics 103, 104, 213
Geography 121, 131, 132, 201, 234, 241
History 101, 102, 103, 131, 211, 212, 213
Human and Consumer Sciences 160
International Studies 103, 113, 121
Linguistics 270, 275, 280
Political Science 101, 102, 103, 210, 230, 250, 270
Psychology 101, 273
Sociology 101, 201, 210, 211, 220, 223, 230

5 A minimum of nine hours, including at least one laboratory science course with at least one laboratory meeting each week in addition to lectures, from the following:

Anthropology 201
Astronomy 100, 100D, 140
Biological Sciences 100, 103, 130, 131, 170, 171, 172, 173, 225, 275
Biology 101
Geography 101
Geological Sciences 101, 120, 201, 211, 221, 231, 245, 256, 270, 283
Microbiology 201, 211, 212
Physical Science 100, 100D, 101, 101L, 105, 105L, 140
Physics 201, 202, 203, 210, 251, 252, 253, 272, 273
Plant Biology 100, 100L, 102, 110, 111, 220, 225, 247, 248

6 Additional courses to fulfill the 54-60 hour requirement

We recommend that you work closely with the transfer coordinator at Ohio University and at the institution to which you hope to transfer to ensure that the specific courses you select will fulfill the major and graduation requirements of the academic program you intend to pursue.

Transferring Technical College Credit

If you have completed an associate's degree from a Board of Regents-approved Ohio college, you will be able to transfer credit for all the general education coursework in which you earned a grade of C- or better. Most programs will allow a limited amount of credit for technical courses. The credits will be applied toward meeting the minimum total credits required for a bachelor's degree at Ohio University. You can arrange to have a preliminary credit evaluation done to determine the applicability of credit you have earned by contacting the transfer coordinator in the Office of Admissions. Your request should specify the program you wish to enter and should be accompanied by a transcript from the institution you are currently attending.

Ohio University also has worked out certain credit evaluations with Ohio community and technical colleges that allow you to earn a bachelor's degree at Ohio University in approximately two years if you continue in the corresponding academic area. For a detailed description of these programs, contact the transfer coordinator in the Office of Admissions.

Enrollment Medical Requirements

There are no specific medical requirements for you to fulfill before entering the University—you are not required to have a physical examination, for example. However, some colleges have specific medical requirements for students pursuing certain majors.

Also, if you are a newly enrolled international student or an international student returning after an absence of two or more years, you will need to arrange for a tuberculosis skin test through Hudson Health Center on campus. If you have a positive reaction, you will need to undergo annual chest X-rays at Hudson Health Center while enrolled as a student.

Please note that, if you are a full-time student, the University requires you to have major medical insurance and offers a reasonably affordable major medical plan for students and their dependents. Information on the insurance plan is included with your registration materials.

Application Deadlines

If you are in high school, we recommend that you apply for admission to Ohio University by December or January of your senior year, but you may apply any time after completing your junior year. You should arrange to take your SAT and/or ACT tests by December of your senior year so that scores can be submitted with your application materials. Although you may enroll for any quarter, we recommend that you enter fall quarter, if possible, because many of our course sequences are scheduled to begin in the fall.

March 1 is the freshman application deadline for fall quarter.

Applications for other terms are accepted up to one month before the quarter or term begins.

Application deadlines for transfer students are as follows:

	Applications	Transcripts
Fall	Jun 1	Jul 1
Winter	Dec 1	Dec 15
Spring	Mar 1	Mar 15
Summer	May 1	Jun 1

Note: The deadlines for applications and required grade-point averages are subject to change without notice.

Campus Visits

The best way to learn about Ohio University is to visit our campus. You are encouraged to arrange visits through the Office of Admissions, which sponsors information sessions and walking tours of the campus Monday through Friday and on most Saturdays (except holidays). Tour and information session times are listed on the chart. We ask that you make reservations for campus visits at least a week in advance for weekday visits and at least three weeks in advance for Saturday visits.

If you would like to speak with a faculty member or college representative in your field of interest, the Office of Admissions will attempt to schedule appointments for you. (These appointments are available Monday through Friday only.)

To arrange a visit, please contact the Office of Admissions, at 614-593-4100 from 8 a.m. to 5 p.m. eastern time, Monday through Friday.

Visitors Center. For help in finding your way around Ohio University and Athens, stop at the Ohio University Visitors Center at the corner of Richland Avenue and Shafer Street. Directions and maps are available, as well as information about the University and community in general.

Campus visitation schedule

Contact the Office of Admissions at 614-593-4100.

	9 a.m.	10 a.m.	11 a.m.	Noon	1 p.m.	2 p.m.	3 p.m.
Mon	IS	T			IS	T	
Tue			IS		IS	T	
Wed		T	IS		IS	T	
Thu		T	IS		IS	T	
Fri		T	IS		IS	T	IS
Sat		T	IS	T			

IS = Information Session

T = Campus Tour

Schedule of Fees

Ohio Residency Guidelines

Since Ohio University assesses your tuition costs based on your status as an in-state or out-of-state resident, the following general information is included to help you determine your residency status. The complete policy on Ohio Residency is included for your reference in the Appendix at the back of this catalog.

In general, you pay in-state tuition if you are a permanent resident of Ohio, which means that you—or your parent(s) or guardian(s) if you're a dependent—have lived in Ohio for 12 consecutive months or more preceding your enrollment at Ohio University. Evidence of Ohio residence includes proof that: (1) you (or your parents or guardians) are subject to Ohio state tax liability; (2) you (or your parents or guardians) are registered to vote in Ohio; (3) you (or your parents or guardians) are eligible to receive Ohio state welfare benefits; or (4) you (or your parents or guardians) possess an Ohio state driver's license and/or motor vehicle registration.

If your residency status has changed from out-of-state to in-state, you will need to file a residency petition with the Office of Admissions and be able to furnish documentation on one or more of the previously stated conditions. The University will then make a determination.

More specific information on residency guidelines, as well as information on "special cases," e.g., if your parent(s) or guardian(s) move, if they are on active duty in the military, if they are migrant workers, etc., is included in the Appendix. Further information is also available from the University examiner in the Office of Admissions.

The following are the comprehensive fees for a quarter course load of 11-20 hours, inclusive:

	Ohio Resident	Nonresident
Athens campus	\$1,184.00	\$2,543.00
Regional campuses	932.00	2,277.00
Ironton campus	860.00	897.00

The extra fee for each quarter hour in excess of 20 hours:

	Ohio Resident	Nonresident
Athens campus	\$57.00	\$125.00
Regional campuses	43.00	112.00
Ironton campus	43.00	48.00

The fee for each hour of enrollment from 1 to 10 hours, inclusive:

	Ohio Resident	Nonresident
Athens campus	\$114.00	\$249.00
Regional campuses	86.00	220.00
Ironton campus	79.00	82.00

Registration Fees*

Instructions for paying fees are issued with your registration materials before the opening of classes each quarter. Fees can be paid by a check or money order, made out to *Ohio University*. You may pay in person or through the mail at the Cashier's Office in Chubb Hall if you are enrolling on the Athens campus, or at the regional campus Office of Student Services if you are enrolling on one of the regional campuses. It is important that you retain all receipts that you receive upon fee payment.

You must pay your fees by the stated deadlines, or you risk the cancellation of your registration. Post-dated checks are not accepted, and checks issued to the University and not paid upon presentation to the bank will automatically cancel any receipts given and result in the assessment of penalties.

Fees for tuition include the instructional fee and the general fee. This figure excludes fees for special courses, such as art, aviation, music, and bowling, which are listed in the quarterly *Schedule of Classes*. Ohio University reserves the right to make, without prior notice, any fee adjustments that may become necessary.

*Please note that all fees listed are for the 1994-95 academic year and are subject to change.

Room and Board Fees*

\$671	Standard Double
555	Triple
628	Quad
826	Single
471	7-Meal Plan
650	14-Meal Plan
694	20-Meal Plan
887	Carte Blanche (Green Card) Meal Plan
20	Linen Service

Late Registration Fees

Unless your registration has been delayed by the University, those of you who register late will be charged a fee beginning with the second calendar week of each quarter. The fee is \$20 the second week, \$40 the third week, \$60 the fourth week, \$80 the fifth week, and \$100 the sixth week. The last day to register with a late fee is Friday of the sixth calendar week of the quarter.

Monthly Payment Plan

If you are a full-time student (undergraduate over ten hours, graduate over eight hours), you are eligible to sign up for the Monthly Payment Plan. This plan equalizes your academic year's fees into nine monthly payments, with the first payment due in early August. This plan is not a loan program, and there is no interest charge on payments. You must apply for enrollment by mid-June for the coming year, and you are charged a \$30 nonrefundable application fee.

If you withdraw from classes, the refund procedure is based on the logic that all fees for the quarter have been paid. The refundable amount will be adjusted to recognize any unpaid monthly payments for the current quarter. Contact the Cashier's Office, Chubb Hall 010, 614-593-4128, to obtain an application for the Monthly Payment Plan.

Other Related Fees*

- \$25 Admission application fee, Athens campus (nonrefundable)
- 15 Admission application fee, regional campus (nonrefundable)
- 15 Special student application fee (nonrefundable)
- 10 Reclassification fee from special student to regular student status (Athens campus only)
- 4 Change of class schedule
- 2 Duplicate official forms, fee receipts, grade reports, etc.

Application for degree

- 8 Associate's
- 16 Bachelor's
- 23 Master's
- 50 Doctorate

- 5 Re-application
- 357 Health insurance, annual premium
- 30 Monthly payment plan (nonrefundable)
- 55 Orientation and testing fee

Parking per quarter

- 25 Commuter lot
- 63 Garage
- 45 On-campus lot
- 5 Returned check charge (per check)
- 2 Transcripts
- 9 ID card replacement
- 4 Damaged ID card replacement when old card is returned

Refund of Fees

University Refund Policy for Withdrawal.

Ohio University refunds fees or credits your account, 30 days after the date of withdrawal, according to the following schedule:

- 1 If you officially withdraw from the University by cancelling registration before the first day of classes, you are entitled to a 100 percent refund of fees.
- 2 If you withdraw from the University during the first 14 calendar days of the quarter (see the academic calendar), you are entitled to an 80 percent refund if your fees were paid in full. Those of you on the Monthly Payment Plan will have incurred a charge of 20 percent of registration fees, with this being subtracted from your registration payments to determine the refundable amount.

3 If you withdraw from the University after the first 14 calendar days of classes, you are not entitled to a refund.

If you withdraw from the University while owing the University money, a hold will be placed on your records until your debt is paid.

Refund Policy for Reducing Course Load.

If you drop credit hours before or during the first 14 calendar days of the quarter, you are entitled to receive a 100 percent refund of the reduction when such changes result in a reduction of fees. For example, if you are registered for 11 hours and drop a five-hour course, you will receive 100 percent of the difference in tuition for dropping from full-time to part-time. However, if you have 18 hours and drop to 13 hours, it does not affect the tuition rate.

Changes made after the 14th calendar day of the quarter will result in no refund.

Further information regarding the refund of fees can be obtained from the Registrar's Office.

Refund Policy on Financial Aid. If you receive financial aid and withdraw during your first quarter of attendance, your refund will be computed under a special Pro-Rata Refund Policy. You will be assessed University charges (tuition and fees, room and board, etc.) prorated on the completed enrollment period up to and including the sixth week of the quarter.

Please note that if you are receiving financial aid, a change in your enrollment status or your withdrawal from the University may result in your having to repay those programs from which you received financial assistance. Further information on this process is included under Refunds and Repayment in the Financial Aid Information section of this catalog.

Lifelong Learning Fees*

\$53	Independent Study courses, each quarter hour
60	Independent Study projects, each quarter hour
28	Course Credit by Examination, each quarter hour
100	External Student status
65	yearly matriculation fee
115	Adult Learning Services, per assessment (courses 1-6 hours)
35	administration fee

Schedule of Pro-Rata Refunds:

If you withdraw:	School retains following % of your aid:
Before the first day of classes	0%
First week of the quarter	10%
Second week of the quarter	20%
Third week of the quarter	30%
Fourth week of the quarter	40%
Fifth week of the quarter	50%
Sixth week of the quarter	60%
After the sixth week of the quarter	100%

Note: Lifelong Learning fees are not part of the comprehensive fees nor are the credit hours counted as part of the comprehensive credit hours.

Financial Aid Information

The purpose of financial aid and scholarships is to supplement you and your parents' contributions toward the cost of education, as well as to recognize academic achievement and special talents. Ohio University offers a variety of scholarships, grants, loans, and part-time employment to assist you in financing your education. The Office of Student Financial Aid and Scholarships (OSFAS) is responsible for the processing and disbursing of all types of federal, state, private, and institutional (University) funds to students.

Types of Financial Assistance

There are two general types of financial assistance—gift aid and self-help aid. You do not have to repay gift aid (scholarships and grants), while self-help aid (loans and part-time employment) requires some effort on your part.

Gift Aid

Scholarships. Ohio University has an extensive scholarship program available to freshmen and upperclass students. Scholarships are awarded on a competitive basis for academic achievement and special talent, as well as on the basis of geographical residence and area of study. Financial need is not always a prerequisite.

Grants. Grants are considered gift aid that you do not have to repay. Most grant aid is based on some type of need-based eligibility criteria. The sources may vary from state, federal, private, and/or institutional funds, so you are encouraged to actively seek out all sources.

Self-Help Aid

Loans. Student loans are playing an increasingly significant role in financing post-secondary education. Ohio University is one of the first universities to be chosen as a lender for the Federal Direct Student Loan Program, which means you can borrow directly from the University instead of having to go through a local bank or lending institution. Educational loans have

favorable terms and conditions, so you should not be afraid to borrow as an investment in your future. However, loans represent debts that must be repaid, and your failure to repay will result in substantial penalties.

Employment. Student employment (on-campus and off-campus) is a viable alternative to borrowing for many students. Ohio University has a variety of student employment programs to provide self-help aid if you wish to work on a part-time basis while pursuing your education. You should attempt to establish a reasonable balance between your academic efforts and your work schedule. Consequently, you may not work more than 20 hours per week when classes are in session. Ohio University is an equal opportunity and affirmative action employer. The Student Employment Office (SEO), as part of the OSFAS, reaffirms the University's commitment to the policy that no employer may discriminate on the basis of race, sex, creed, ethnic origin, or handicap in employment practices. Also, there will be no discrimination because of age, except as governed by state and federal laws and guidelines. (See "Affirmative Action" in the Services for Students section of this catalog.) Programs listed are subject to change based on federal regulations.

Application Procedure

To apply for any of the five federal need-based financial aid programs (Federal Pell Grant, Federal Supplemental Educational Opportunity Grant, Federal Work Study, Federal Perkins Loan, and Federal Direct Student Loan), the Ohio University Grant (OUG), and the Ohio Instructional Grant (OIG), you should complete the U.S. Department of Education Free Application for Federal Student Aid (FAFSA) if you are a first time applicant, or the Renewal Application if you are a renewal applicant. Specific instructions for completing the FAFSA or Renewal Application are included with the application packet provided by the OSFAS. You may obtain FAFSA forms for each academic year from any local high school, college, university, or the OSFAS, in Chubb Hall, 020, after January 1.

Three of the five need-based aid programs are called Campus-Based Aid (Federal Work Study, Federal Perkins Loan, and the Federal Supplemental Educational Opportunity Grant). Campus-Based Aid (CBA) is awarded differently from the Federal Pell Grant and the Federal Direct Student Loan in that CBA funds are sent directly to the University from the federal government to be awarded by the aid administrator using federal eligibility criteria. Funding for these programs and for the OUG is limited; therefore, priority is given to those students who demonstrate the highest financial need and who meet Ohio University's priority date of April 1.

Though the priority deadline for CBA is April 1 of each year (i.e., the FAFSA need analysis must be on file at OU), if you do not meet this deadline and/or the eligibility criteria, we recommend that you continue through the application process to complete the requirements for other types of assistance, such as the Pell Grant or the Federal Direct Student Loan.

Federal regulations and/or institutional policies are subject to change without prior notice. The OSFAS will attempt to keep you updated as necessary through various media on campus and via written notices. Therefore, to avoid delays that may be costly, it is vital to update your permanent and local addresses with the Registrar's Office.

Need-Based Financial Aid

Ohio Instructional Grant (OIG).

If you are an Ohio resident, you are encouraged to apply for the OIG by completing the FAFSA or Renewal Application. For 1994-95, October 1 is the deadline for applying for the OIG, though you should apply as early as possible—ideally, by April 1—to meet priority deadlines. If eligible, you will receive a notice of eligibility.

Federal Pell Grant. After you complete the FAFSA, you will receive a Student Aid Report (SAR) from the U.S. Department of Education Central Processor. It will tell you whether you qualify for a Federal Pell Grant. As soon as you receive the SAR in the mail, you must sign, date, and submit all copies to the OSFAS for processing. Return the SAR even if you do not qualify for a Federal Pell Grant, because the OSFAS uses the report to determine your eligibility for other aid.

Federal Direct Student Loan (FDSL).

If you indicate on the FAFSA that you would like to borrow a FDSL (Subsidized and/or Unsubsidized), you will be notified of your eligibility on an award letter. If eligible, you must accept or decline the loan and return the award letter to the OSFAS. In addition, you must sign a promissory note before the loan proceeds can be credited to your account.

Merit-Based Financial Aid

Freshman Scholarships. Applications are available in the Admissions Application Package. You must return the scholarship application to the Office of Student Financial Aid and Scholarships by February 15 of your senior year. At the Athens campus, you must normally have a minimum ACT score of 28 or combined SAT of 1170 and rank in the top 20 percent of your high school class to qualify. If you plan to enter the College of Fine Arts, you also will be evaluated by interview and/or portfolio or audition (as appropriate). All awards are made pending admission to Ohio University. If you receive a scholarship, you are required to earn a minimum of 16 credit hours per quarter during your freshman year.

Upperclass and Transfer Student Scholarships.

Applications are available in the OSFAS each year after January 1. All applications must be returned by March 1. To be considered for an upperclass scholarship for the next academic year, you normally must: (a) have accumulated a grade-point average (g.p.a.) of 3.4 by the end of winter quarter in the application year (for College of Fine Arts students, minimum g.p.a. is 3.0); (b) have earned at least 32 hours for fall and winter quarters in the application year OR, if not currently enrolled, have submitted a transcript demonstrating 32 hours earned in the last two quarters of enrollment at Ohio University; (c) have completed a minimum of two quarters at Ohio University; and (d) have earned a total of 48 credit hours by the end of spring quarter in the application year. Otherwise, the award will be rescinded. Transfer students are eligible to apply and will be evaluated on the basis of performance at the institution(s) previously attended. If you apply late, you will be given second priority consideration, pending funding availability.

Regional Campus Scholarships.

Freshman and upperclass student applications are made available by each regional campus. You must return your scholarship application to the Office of Student Services of the individual regional campus you plan to attend. The criteria for nomination is somewhat different from the Athens campus, and the deadline date for returning the application are April 1. Pay particular attention to the guidelines and application procedures on the scholarship application.

College Cost

A college education not only enriches your life, but it also increases your earning potential and your ability to contribute to society. As with every worthwhile investment, certain costs are attached. Ohio University has maintained low to moderate tuition, fees, and room and board costs in an attempt to make higher education more accessible.

Each year, the Ohio University Board of Trustees determines the fixed costs (tuition and fees, out-of-state surcharge, and room and board rates on campus) for you. Variable costs (books and supplies, travel allowance, and personal and miscellaneous) are estimated by the OSFAS to arrive at the total cost of attending Ohio University for the academic year (three quarters). If you attend all four quarters, an adjustment is made to include the additional costs. Estimates are based on the Consumer Price Index and from periodic local survey data on housing and food costs. The total fixed costs plus variable costs make up your total cost (budget) for the academic year.

Determining Need

The Federal Methodology (FM) is the calculation used by the federal government to measure your eligibility for assistance. All federal aid programs require that you show need after the income and (in some cases) assets of your family (taken from the FAFSA) have been analyzed. The OSFAS uses the need analysis information from the FAFSA or Renewal Application to determine the amount you and your parents are expected to contribute toward your education. Consideration is given to your parents'/your adjusted gross income, assets, taxes paid, number of dependents, number attending college, and other factors as appropriate.

The FM performs a separate analysis of income when (a) your parents' adjusted gross income is less than \$50,000 per year and your parents were eligible to file a 1040A or 1040EZ tax form, or (b) when your parents do not file a tax form with the IRS. Special circumstances, such as divorce, separation, unemployment, or death in the family should be discussed with a financial aid administrator to determine if adjustments should be made to the FM calculation. The combination of your and your parents' contribution results in the Expected Family Contribution (EFC). This value may be found on the SAR.

If you are independent, you and your spouse (if applicable) are expected to assist in meeting your educational costs. Your expected contribution is calculated from the previous year's earnings, untaxed income, and a percentage of personal savings and assets. The following equation is used for calculating financial need:

$$\begin{array}{r} \text{Cost of Education (Budget)} \\ - \text{Minus Expected Family Contribution} \\ \hline = \text{Financial Need} \end{array}$$

Eligibility Requirements

To receive Title IV federal aid (Federal Pell Grant, Federal Direct Student Loan, Federal Work Study, Federal Supplemental Educational Opportunity Grant, or Federal Perkins Loan), you must:

- 1 be a U.S. citizen, a national or permanent resident of the U.S., or be in the U.S. for other than a temporary purpose. If you are a citizen of the Marshall Islands, the Federated States of Micronesia or Palau, you should see a financial aid administrator. If you are a permanent resident, you may be required to provide a copy of your INS document card before being awarded aid.
- 2 comply with the Statement of Educational Purpose and the U.S. Selective Service Registration requirements.
- 3 be enrolled or accepted for enrollment in a degree or certificate program.
- 4 be making satisfactory academic progress as defined by Ohio University and the OSFAS. (See Satisfactory Academic Progress Standards.)
- 5 sign a student agreement to keep the OSFAS informed of changes in personal information.
- 6 not be in default (parents also must not be in default if applying for a PLUS loan) on a Federal Perkins Loan, a Federal Stafford Loan (formerly the Guaranteed Student Loan), or Federal Supplemental Loan for Undergraduate Students (SLS), from any school, agency, or lender, or owe a repayment on any Title IV funds.
- 7 (transfer students only) submit a copy of your Financial Aid Transcript from each college previously attended.
- 8 have a valid social security number.

Award Package

After the FAFSA need analysis and other documents have been received, reviewed for accuracy, and verified (if applicable), an award package is offered to all eligible applicants. The award package can be a combination of merit scholarships, state and federal grants, employment, and/or loan assistance to offset costs. Not all students receive all types of financial aid, but in general, the OSFAS attempts to balance "gift aid" (grants and scholarships) with "self-help" (employment and loans) within the limits of available funds and the eligibility and need of the applicants. If you apply by the April 1 priority date, you may receive a more attractive package than if you apply later.

Notification Of Aid Offers

A written notification of award offers will be sent as appropriate to all applicants. (All applicants are eligible for some form of aid.) All award notifications (Notice of Award and Acceptance Agreement) will be sent via the U.S. mail to your permanent or local address and must be signed and returned by a specific date. If you fail to sign and return the award acceptance by the designated date, your award will be canceled. If you are not offered scholarships, grants, FWS, or the Federal Perkins Loan, we encourage you to continue in the process to be considered for supplemental forms of assistance such as other loans (Federal Direct Subsidized Stafford Student Loan, Federal Direct Unsubsidized Stafford Loan, Federal Direct PLUS Loan) and/or university employment (CSSES and PACE).

Award Disbursements

Federal aid recipients must be enrolled officially in a degree-granting program through the Registrar's Office to receive any type of financial assistance. All requested documents, e.g., income tax returns or financial aid transcripts, used in verifying the data provided on the FAFSA, must be received by the OSFAS before federal financial aid can be disbursed. Disbursement dates and

procedures will vary, depending on the type of awards offered. Specific information and dates regarding the disbursement of financial aid are listed in the *Schedule of Classes Bulletin* printed for each quarter. In general, financial aid awards will be credited to your account each quarter. In general, total financial aid credits greater than the University charges will be issued about a month after the quarter starts in the form of an overage check to you to assist you in meeting other education-related expenses. If you are a student-athlete, however, your credit will be disbursed on a monthly basis, with the credit prorated over the specific number of months.

Federal Work Study awards are not credited to your account because these awards must be earned before being paid. You will be paid by check every two weeks. Please note the payment due dates in the billing statement from the Bursar's Office. (See the *Schedule of Classes Bulletin* each quarter for specific disbursements dates.) If you will be away from campus due to student teaching programs, internships, co-op, or study abroad, you should contact the OSFAS at 614-593-4141 well in advance to arrange for disbursement of your financial aid.

Refund And Repayments

If you are entitled to a refund under the University's refund policies and you receive any Student Financial Aid (SFA) funds (excluding Federal Work Study, Byrd, or Douglas Scholarships), you may be required to refund all or a portion of that refund to the appropriate SFA program according to a formula defined by federal regulations. If, after receiving any financial aid in the form of a cash payment for non-institutional costs, you then withdraw, drop out, or are expelled, you may be required to repay a portion or all of that aid to the appropriate program.

Refund Policy

If you withdraw from the University, you may be eligible for a refund. (You can pick up a copy of the refund policy in the OSFAS, or see the Schedule of Undergraduate Fees—Refund of Fees section

of this catalog.) However, if you withdraw from the University after you have received student financial aid, you may be required to refund all or a portion of the financial aid to the appropriate financial aid program(s). (See the Schedule of Fees—Refund of Fees section.)

Distribution Policy

If it is determined that a portion of your eligible refund of University charges consists of student financial aid, Ohio University's policy is to return the Student Financial Aid portion of that refund to the program(s) in the following priority order:

- 1 Federal Family Educational Loan Programs
- 2 Federal Perkins Loans
- 3 Federal Pell Grant
- 4 Federal Supplemental Educational Opportunity Grant
- 5 Ohio Instructional Grant

Refunds to non-federal aid programs will be prioritized as follows:

- 1 University Scholarships/Grants
- 2 Other Student Aid Programs

Repayment Policy

If you withdraw and receive a CASH disbursement of student financial aid for non-institutional charges, you may be required to repay all or a portion of the student financial aid to the appropriate financial aid program(s). The following policies are used in determining the amount you are to repay, if any.

- 1 Non-institutional housing/board costs are prorated based on the remaining months in the quarter.
- 2 One-third of academic year allowance for books, supplies, and personal/miscellaneous expenses is considered to be expended if you begin classes.
- 3 Transportation costs are prorated based on the remaining weeks in the quarter.

If it is determined that you are required to repay all or a portion of the student financial aid disbursed to you, it will be returned to the appropriate program(s) in the priority order listed above.

Satisfactory Academic Progress Standards (SAP)

Need-Based Federal Assistance

If you received federal student aid for the first time after July 1, 1987, or if you are continuing to receive federal student aid, there are three elements to the Satisfactory Academic Progress standards that you must meet: (1) minimum credit hours earned for the appropriate enrollment status (full-time, three-quarter time, or half-time); (2) maximum time frame during which a degree or certificate must be granted; and (3) minimum 2.0 cumulative g.p.a.

Minimum credit hour standards are as follows: if you are applying for or are currently receiving student aid, you must earn the minimum hours attempted for the appropriate enrollment status.

You will be assigned full-time status for attempting 12 or more credit hours, three-quarter time status for attempting between 9 and 11 credit hours, and half-time status for attempting between 6 and 8 credit hours (per quarter).

Maximum time frame standards are as follows: if you are a full-time student, a degree or certificate must be granted within five academic years or 15 quarters. If you are a three-quarter time student, it must be granted within 6.67 academic years or 20 quarters. If you are a half-time student, it must be granted within 10 academic years or 30 quarters.

If you are a first-time federal aid recipient, you must earn a minimum 2.0 cumulative g.p.a. by the end of the second academic year of enrollment. If you are a continuing federal aid recipient, you must maintain a minimum 2.0 g.p.a.

If you are a transfer student, hours accepted by Ohio University will be included as part of the maximum time frame toward the completion of a degree or certificate. If you are re-enrolling, your prior Ohio University hours are considered for determining satisfactory academic progress. If you attend summer quarter, you will have the time frame and hours attempted counted for that quarter.

In the event of repeated courses, only the final hours count toward the completion of a degree or certificate. Incomplete courses are counted in the g.p.a. and maximum time frame requirements once they are completed. Proper withdrawal from classes prior to the 14th day of enrollment will not affect the fulfillment of the requirements, but attempted hours after the 14th day of enrollment will be counted. You are allowed one complete withdrawal from the University during your entire undergraduate period at Ohio University.

You will be notified of your annual status after spring quarter. If you are placed on probation, you are considered in "good standing" and remain eligible to receive financial aid. If you become ineligible, you may appeal the decision if your failure to meet SAP criteria for satisfactory academic progress was due to mitigating circumstances. Appeal forms are available in the OSFAS and must be submitted before the end of the second week of the quarter.

Retention and Renewal for Scholarship Recipients

If you receive scholarship aid, you must meet the following requirements:

Hours Requirement. If you receive scholarship aid while attending the Athens campus, you must earn at least 16 credit hours for each quarter during the academic year for which you receive funds. If you attend a regional campus and receive a regional campus scholarship, you must earn at least 12 credit hours for each quarter during the academic year for which you receive the award.

G.P.A. Requirement for One-Year-Only Scholarships. For the Manasseh Cutler Freshman, Deans, Endowed/Restricted, Corporate, and other Ohio University-funded scholarships, you must maintain a minimum g.p.a. of 3.0 for each quarter during the academic year for which you receive the scholarship(s).

G.P.A. Requirement for Renewal Scholarships. To renew the Third Century, John Newton Templeton, Thurgood Marshall, and Presidents scholarships, you must have an accumulative minimum g.p.a. of 3.3 at the end of both winter and spring quarters of the award year.

National Merit Scholarships and outside agency scholarships have different g.p.a. requirements set by the National Merit Corporation and outside agencies, respectively. Academic requirements for regional scholarships vary from one regional campus to another. Please contact the Office of Student Services at the appropriate regional campus for further information.

Descriptions of Available Aid

Gift Aid—Scholarships

Below is a listing of some of the scholarships offered. Consult the scholarship brochure, available from OSFAS, for more details.

Third Century Scholarship. These four-year renewable scholarships are valued at \$3,000 per year and are limited to incoming first-year students. To renew the award, you must maintain a 3.3 accumulative g.p.a. and earn 48 credit hours per year or 16 credit hours per quarter. Class rank and ACT or SAT test scores, recommendations, activities, interviews, and/or auditions are among the selection criteria.

John Newton Templeton Freshman Scholarships. This scholarship is limited to incoming minority freshmen (African American, Hispanic, Native American). The value is \$3,000 per year and is awarded based on such criteria as class rank, g.p.a., honors, awards, extracurricular activities, volunteer/paid work, and ACT or SAT test scores. It is renewable for three additional years if you maintain a 3.3 accumulative g.p.a. and earn at least 16 credit hours per quarter. For further information, contact the Office of Admissions.

Presidents Scholarship. Limited to incoming first-year students, these four-year renewable scholarships are valued at \$1,500 per year. To renew the award, you must maintain a 3.3 accumulative g.p.a. and earn 16 credit hours per quarter. Class rank and ACT or SAT test scores, recommendations, activities, interviews, and/or auditions are among the selection criteria.

Manasseh Cutler Freshman

Scholarships. These one-year, nonrenewable scholarships are valued at \$1,000 to \$2,000 and are awarded to incoming first-year students. Criteria for selection include class rank, ACT or SAT test scores, recommendations, activities, interviews, and audition.

Upperclass Deans Scholarships.

These scholarships are one-year awards valued at \$750 to \$1,500 for upperclass students and transfer students who have earned more than 48 credit hours. Selection is based on earned hours and accumulative g.p.a. You must reapply and compete annually for renewal.

Special Talent Awards. If you have exceptional talent in art, dance, forensics, music, or theater, you may receive a Manasseh Cutler Scholarship (first-year students) or a Deans Scholarship (upperclass) for that talent. If interested, contact the respective department for additional information. You must reapply annually.

OU Minority Scholarship. Limited to upperclass students, these one-year awards are valued at \$750 to \$1,000. Selection is based on earned hours and accumulative g.p.a.

Thurgood Marshall Scholarship.

This renewable scholarship was established by Ohio University in honor of Thurgood Marshall, who is the first African American to serve as an Associate Justice of the Supreme Court of the United States. The scholarship is limited to an upperclass African American student. The value of the scholarship is \$4,000 per year, and recipients are selected based on academic performance.

Corporate Scholarships. Available to students majoring in specific academic areas (engineering, business, sciences) on the basis of high academic achievement, these awards range from \$300 to \$2,000 per year. Eligibility normally includes high academic achievement and demonstrated financial need, and you must re-apply annually for renewal.

Endowed Scholarships. Available to students with high academic achievement and demonstrated financial need, these scholarships are made available from contributions of alumni and friends of Ohio University and are usually restricted by geographic locality, by major, or by some other special criteria. Awards range from \$150 to \$3,000 per year.

National Merit Scholarships. These scholarships are awarded to National Merit finalists who indicate Ohio University as their first-choice institution. National Merit Scholarships are four-year awards ranging in value from \$750 to \$2,000, based on financial need.

Reserve Officers Training

Corps Scholarships. Scholarships ranging from one to four years are available on a competitive basis for qualified students participating in the Air Force (Aerospace Studies) or the Army (Military Science) program. These scholarships pay costs of tuition, lab fees, and a flat rate for books. In addition, you receive a subsistence allowance at the rate of \$100 per month for the period the scholarship is in effect. If interested, contact the Department of Aerospace Studies or the Department of Military Science.

Gift Aid—Grants

Federal Pell Grant. The Federal Pell Grant is a quasi-entitlement program from the federal government, which means that all undergraduate aid applicants who establish eligibility will receive funds based on their estimated family contribution, enrollment status (full-time, three-quarter time, half-time, or less than half-time), and the cost of education. Upon submission of a FAFSA or Renewal Application, you will receive a Student Aid Report (SAR) indicating the Estimated Family Contribution (EFC) to be converted into an award amount from a minimum of \$400 to a maximum of \$2,300. (Based on 1993-94 values, these minimums and maximums are subject to change according to Congressional appropriations.) The Federal Pell Grant serves as the foundation upon which all other aid may be added. However, ineligibility for Federal Pell Grant funds does not automatically exclude you from all other types of financial aid.

Federal Supplemental Educational Opportunity Grant (SEOG).

The Federal SEOG is a federal grant awarded to undergraduate students on the basis of exceptional financial need beyond the Federal Pell Grant. These funds are awarded directly by the University and are limited to the funds allocated to the University by the U.S. Department of Education. You must have completed the FAFSA or Renewal Application and have demonstrated financial need. Preference is given to Federal Pell Grant recipients. The dollar amount awarded to eligible applicants varies each year depending upon the needy student population enrolled at Ohio University.

Ohio University Grant (OUG).

The Ohio University Grant is an institutional grant made available by the University to supplement the limited Federal SEOG funds for needy students or students with special circumstances. You should have completed the FAFSA and have demonstrated financial need. Discretionary judgments are made by the OSFAS to award students who would not be able to remain in school or to graduate otherwise.

Ohio Instructional Grant (OIG).

The OIG is a need-based state-funded grant to assist Ohio residents in meeting the cost of education. If you are an Ohio resident and you wish to be considered, you must complete and submit the FAFSA or Renewal Application with the U.S. Department of Education. Although the deadline date for 1994-95 is October 1, you are encouraged to apply as soon as applications are available in early January. If you are eligible, you will receive a notice of eligibility.

Self-Help Aid—Student Loans

Federal Perkins Loan (formerly National Direct Student Loan).

The Federal Perkins Loan is a federal loan for students who are enrolled in a degree program at a participating post-secondary institution. No interest is charged on the loan while you remain in school, and the repayment period begins nine months after you graduate or leave school. To apply, you must file a FAFSA or Renewal Application with the U.S. Department of Education. The interest rate is currently 5 percent, and loans can

be included under the loan consolidation provisions contained in the Reauthorization Act. You must sign a promissory note before a disbursement of cash or credit to your account can be made.

Federal Direct Student Loans (formerly the Federal Stafford Student Loan).

Ohio University has been selected by the U.S. Department of Education to be a Direct Lending institution for 1994-95. The University will act as the lender on behalf of the U.S. Department of Education to disburse Federal Direct Stafford and PLUS funds directly to the student's account. The University will not process loan applications from lending institutions such as banks. The Federal Direct Stafford Loan is a low-interest loan for students enrolled at least half-time in a degree or certificate program at a participating post-secondary institution.

There are two kinds of Federal Direct Stafford Loans—Subsidized and Unsubsidized. The federal government will pay the interest on the Federal Direct Subsidized Stafford Loan while you are in school, during the grace period, and during a deferment period. The federal government does not pay the interest on the Federal Direct Unsubsidized Stafford Loan. You would be responsible for paying the interest on any Federal Direct Unsubsidized Stafford Loan; however, you may defer payments and capitalize the interest. If you apply for the Federal Direct Stafford Loan (Subsidized or Unsubsidized), you must file the FAFSA or Renewal Application to determine eligibility. The Federal Direct Unsubsidized Stafford Loan is available to you if you do not qualify for the Federal Direct Subsidized Stafford Loan funds or if your eligibility for subsidized funds is limited. Applicants will receive notice of their eligibility on their award letter and must sign a promissory note before funds can be credited to their account. Funds credited in excess of charges will be refunded by the Bursar at regular intervals during the quarter. All first-time, first-year borrowers must wait 30 days into the loan period before loan funds

can be credited to their accounts. All first-time borrowers at the University must attend an entrance interview before the first disbursement can be made. Students who are in repayment on prior loans may be eligible for a deferment, and loans may be consolidated under certain conditions.

Ohio University Loans.

During periods of enrollment, funds are made available by the University to provide short-term emergency loans for students. These loans are available to assist you in the payment of University bills and/or educationally related expenses, provided you are enrolled at least half-time and have a guaranteed source of repayment that will be available within 30 to 60 days from the date of the loan. A one-page loan application must be completed and approved. Checks are generally available within eight working days after the loan is approved. A personal interview with the coordinator of student loans may be required. If you are in default of previous loans and/or federal loans, you are not eligible to receive an institutional loan. Borrowers are charged a processing fee and may be charged an interest rate of 9 percent.

Federal Direct Parent Loan for Undergraduate Students (PLUS).

The Federal Direct PLUS Loan is a supplemental loan for parents of dependent undergraduate students. Your parent(s) must be your natural or adoptive parent(s) or legal guardian(s). All parent borrowers will be subject to a credit check before eligibility is determined and must not have an adverse credit history. Federal Direct PLUS Loan applications can be obtained from the University. We recommend that you and your parent(s) file the FAFSA or Renewal Application in order to determine eligibility for other sources of aid. The Federal Direct PLUS Loan must be used for your educational expenses. Federal Direct PLUS Loan proceeds are applied directly to your account, and any overage may be refunded to you (with parent's approval) or to your parent at regular intervals throughout the quarter. Repayment begins in 60 days.

Self-Help Aid—Employment

Federal Work Study (FWS). This is a need-based federal program that allows you to earn a portion of your educational expenses through part-time employment. The federal government stipulates that jobs available under the FWS program may not displace presently employed persons or fill regular job openings (including student employment). Therefore, FWS jobs are used as a supplemental source of assistance by institutions. Whenever possible, you are placed in a position which coincides with your career interests or academic major, or in a community service position. You are paid at least minimum wage based upon the number of hours actually worked. Most students are eligible to work 10 hours per week and are paid by check every two weeks. If you are new to FWS, you must report to the OSFAS at the opening of the first quarter you have been awarded FWS to receive your work assignment. Returning students should report directly to their respective departments. Beginning with the 1994-95 academic year, five percent of Ohio University FWS positions will meet the definition for community service.

Program to Aid Career Exploration (PACE). The PACE program, co-sponsored by the OSFAS and Career Services, is unique to Ohio University. The intent of the program is to provide you with the opportunity to earn money to help meet educational expenses while gaining career-oriented work experience. PACE students work up to 10 hours per week at \$4.50 per hour. To be eligible for PACE employment, you should meet the following requirements: (1) be an undergraduate; (2) have earned at least 30 hours; (3) have at least a 2.3 accumulative g.p.a.; and (4) be in need of earnings as defined by the OSFAS. PACE employment is available only to Athens campus students who are enrolled full-time and not employed in FWS.

Centralized Student Employment Service (CSES).

Ohio University established the CSES to provide job opportunity information for all students enrolled at least half-time. Its purpose is to assist in hiring students for part-time jobs, to maximize employment opportunities and job placement, and to help coordinate student employment policies and procedures. Through CSES, job opportunities are posted from all hiring departments at Ohio University (Athens campus) and for private (off-campus) employers, as well.

Job listings appear on a job board outside Chubb Hall 020. All employment opportunities for students are posted when new positions are available and/or when vacancies occur. You are referred to potential employers for interviews and hiring decisions. Because the job-posting service is centralized, you are assured an equal opportunity to apply for jobs. Most international students are able to use the CSES.

Job Location and Development

(JLD). To assist with placing you in off-campus positions, an Employment Skills/Work Experience Inventory has been designed which permits you to register your experience levels in any of 166 job categories. Lists of available students are provided to potential employers free of charge and include the names, phone numbers, addresses, and experience levels of all students in that job category. For details, please contact the Office of Student Financial Aid and Scholarships.

Services to Students

The OSFAS is open from 9 a.m. to 4 p.m., Monday through Friday. All financial aid applicants are assigned a counselor to assist them with financial aid matters. You may schedule an appointment with your assigned counselor during service hours. Counselor assignments are made alphabetically according to your last name. Some of the services provided by the counselors are: (1) confirmation of financial aid for preregistration, (2) a review of financial need and eligibility, and (3) a review of policies and procedures for the different types of financial aid programs. Emergency situations may be accommodated immediately on a case by case basis.

More detailed information regarding any of the financial aid programs and/or scholarships may be obtained by contacting the Office of Student Financial Aid and Scholarships at Chubb Hall 020, Athens OH 45701-2979 or by calling 614-593-4141 Monday through Friday from 9 a.m. to 4 p.m.

Academic Policies and Procedures

Precollege Orientation

As part of your enrollment as an incoming freshman or transfer student at Ohio University, you will attend Precollege Orientation, where you preregister for classes, tour the campus, and meet with administrators and faculty who will help acquaint you with University policies and procedures. Precollege Orientation for fall quarter students is held in two-day sessions beginning in mid-July and continuing to the first week in September. Information about scheduling a session that's convenient for you will be sent in the late spring. The cost is \$66, which covers the orientation program and your room and board in one of the University's residence halls. Your parents also are encouraged to attend the orientation sessions; information on area lodging is available from University College, which sponsors Precollege Orientation.

If you are entering the University for other than fall quarter, orientation and registration programs will be conducted before the beginning of each quarter. Information will be sent to you from University College.

Further information about Precollege Orientation is available from University College, Chubb Hall 140, telephone: 614-593-1950.

Registration Information

Registration

As noted above, if you are an incoming freshman or transfer student, you will receive information and advising about class preregistration along with other information during Precollege Orientation.

If you are a current or re-enrolling student at Ohio University, details concerning class preregistration and registration procedures using the computerized Touch-tone Registration and Information Processing System (TRIPS) will be published in the current *Schedule of Classes*, available from the Registrar's Office by mid-term for use for the following quarter. (The fall quarter *Schedule of Classes* is published in the previous spring quarter.)

Late Registration

Unless your late registration has been judged by the registrar as being delayed by the University, you will be charged a late registration fee beginning with the second calendar week of each quarter. The fees are as follows: second week, \$20; third week, \$40; fourth week, \$60; fifth week, \$80; and sixth week, \$100.

The last day to register with a late fee is Friday of the sixth calendar week of the quarter.

In addition to other service charges, a \$20 late payment fee will be assessed by the Bursar's Office on all checks returned by a bank after the payment deadline has passed.

Identification Card

When you register, you will be given information about obtaining an identification card, issued by the Registrar's Office. This card, which is automatically validated when you register, gives you access to campus services for the quarter, including the meal plan, library privileges, and health services through Hudson Health Center.

The card is issued free of charge according to these guidelines:

- 1** If you are a new student or a re-enrolling student returning after one year, you are issued a card free of charge.
- 2** If your name or social security number has changed, you will be issued a new card free of charge, provided you return your old card when the new one is issued.

The Registrar's Office charges a card replacement fee under these circumstances:

- 1** You will be charged \$9 to replace a card lost within one year of your last quarter of enrollment.
- 2** You will be charged \$4 to replace a damaged card if the damaged card is returned when the new card is issued.
- 3** You will be charged \$9 for a new card containing a name or social security number change *only* if the old card is unavailable. If you return the old card when the new one is issued, you will not be charged.

Updating Personal Information

You must report any changes in your personal data to the Registrar's Office, Chubb Hall. Forms are available in the Registrar's Office or through your dean's office. Requests for name changes, social security number, and/or birthdate must be accompanied by a document verifying the correct information.

Address changes must be reported to the University and can be made to most student services offices, including your dean's office and the Registrar's Office. *Please note that you are responsible for any University office communication sent to you at the last address reported to the University.*

Enrollment Information

All course credit earned at Ohio University is designated in quarter hours. Normally a quarter hour is the equivalent of one lecture or two laboratory periods a week throughout the quarter.

Student Standing (Freshman, Sophomore, Junior, Senior)

Your student standing—or year in college—is determined by the number of quarter credit hours you have completed. Freshmen have completed 0 to 44 hours; sophomores, 45 to 89; juniors, 90 to 134; and seniors, 135 and over.

Course Load

As a full-time student, you will usually carry a normal load of 16-20 quarter hours, even if you are on academic probation. Eleven credit hours is considered full-time by the University; however, if you receive financial aid or if you are a student-athlete, you must carry a minimum of 12 quarter hours to be considered full-time, and if you receive scholarships, you may have to carry up to 16 quarter hours, depending on scholarship criteria. If you schedule fewer than 11 credit hours (12, if you are receiving financial aid), you will be considered part-time, effective for the quarter. If you schedule more than 20 hours, you will be charged an additional fee for each hour taken.

Veterans Benefits. If you are an undergraduate receiving veterans benefits, you must register for at least 12 quarter hours for full benefits to be awarded. For more information about veterans benefits, contact the Veterans Coordinator, Chubb Hall 110, telephone 614-593-4186.

Student Athletes—Maintaining Eligibility. After your first academic year in residence or after one season of eligibility in a sport, your eligibility to participate in sports is based on the following: (1) satisfactory completion of a cumulative total of quarter hours of academic credit that is equivalent to an average of at least 12 hours per term of enrollment, or (2) satisfactory completion of 36 quarter hours in the preceding three quarters, with no more than nine summer term hours included. Those of you who are freshmen and sophomores should have a minimum accumulative g.p.a. of 1.8, while those of you who are juniors and seniors should have a minimum accumulative g.p.a. of 2.0 to be eligible to compete.

You must declare a major by the beginning of your third year in school. You must be registered for at least 12 hours during the season of competition and not drop below 12 hours during the season.

In addition, if you've entered the University on or after August 1, 1992, a specific percentage of your degree program requirements must be completed. By the beginning of your third

year of enrollment, you must have completed at least 25 percent of your specific degree program credits; by the beginning of your fourth year, 50 percent must have been completed; and by the beginning of your fifth year, you must have completed 75 percent of the degree requirements. This provision applies to those of you transferring from a two- or four-year institution, even if you have not completed a year in residence or a season of eligibility at Ohio University.

Declaring a Major

Normally, you will declare a major when you apply as a freshman or transfer student by indicating the name and the six character major code number of your choice on the application form. If you are unsure about a major, Ohio University allows you to enroll as an "exploratory" major in University College, or as an "undecided" major in many colleges.

When you are selecting a major, please note that some programs of study have higher admission requirements than those set by the University in general, and admission to the University does not automatically grant admission into specific programs or majors. Please consult the academic area or the Office of Admissions for further information on limited or selective admissions policies for specific programs.

Changing Your Major or College

If you are undecided and wish to declare a major, or if you would like to change your major, you will need to visit the college in which the major is offered to see if you meet the entry requirements.

Sometimes a change in major will necessitate transferring to another college (e.g., Arts and Sciences to Communication). You then make application for transfer in the dean's office of the college to which you would like to be admitted. The change must be processed through the dean's offices of both colleges within the first 14 calendar days of the quarter (the specific date is published in each quarter's *Schedule of Classes*), or you will remain enrolled in the initial college for that quarter. You must fulfill degree requirements of the college into which

you transfer. You may, however, pursue programs in more than one college simultaneously. (Consult your dean's office about double degree and dual major opportunities.)

Changing Your Course Schedule

In most instances, you may add a course, drop a course, or correct your registration through the TRIPS system by touch-tone telephone. However, adding certain courses after classes begin requires special permission from the course instructor, and dropping any course after the fifth week of classes is generally prohibited except by petition through your dean's office. (See "Drops" below.)

Adds. You may add a course only during the first 14 calendar days of the quarter. For courses requiring the instructor's permission, you will need to obtain a permission slip (pink slip) from the instructor or departmental representative, and then return the slip to the Registrar's Office for final processing.

Drops. You may drop any course through the fifth week (defined as the 35th calendar day) of the quarter. During the first two weeks of the quarter, you may drop a course using the TRIPS system. From the third to the fifth week, you will have to process a change order through your dean's office. You will be charged \$4 for each change order processed after the 14th calendar day of the quarter. Dropping a course is generally prohibited after the end of the fifth week, but under exceptional circumstances, you may petition your dean in writing to drop a course. Earning a low grade in the course is not to be considered such a circumstance.

If you drop a course during the first two weeks (first 14 calendar days), you will have no record of that course on your transcript. When you drop a course after the 14th calendar day of the quarter, your instructor will assign a grade of Withdrawal Passing (WP) or Withdrawal Failing (WF), indicating that you were passing or failing at the time the course was dropped. This grade will appear on your grade report, your quarterly DARS report, and your official transcript. It does not affect your g.p.a.

If you drop hours prior to or during the first 14 days of the quarter, you are entitled to receive a 100 percent refund of the reduction when such changes result in a reduction of registration fees. Changes made after the 14th day of the quarter will result in no refund. If you are receiving financial assistance, a change in enrollment status may result in your having to repay those programs from which you received student financial assistance. (See Refund of Fees for more information.)

Withdrawing from the University

Before Classes Have Begun. If you find you need to withdraw from the University by cancelling your registration before classes have begun, you may either drop all your classes through TRIPS or you can call or visit the Registrar's Office or the dean's office of the college in which you are enrolled to obtain a Cancellation of Registration form, which you then complete and return to the Registrar's Office. A refund of your registration fees is made according to the schedule under the Refund of Fees section.

After Classes Have Begun. After the quarter's classes have begun, you apply for withdrawal by completing a withdrawal request form obtained from the dean's office of the college in which you are enrolled. When the request has been approved by the dean, your withdrawal is referred to the Registrar's Office, which grants an official withdrawal after determining that all obligations to the University have been met. A refund of your registration fees is made according to the schedule under the Refund of Fees section.

If you are receiving financial aid, your change in enrollment status may result in your having to repay those programs from which you have received financial assistance. See the Refund of Fees and Financial Aid sections of this catalog for further information.

Withdrawing for Medical Reasons.

In the event of serious physical or mental illness, you may arrange for a medical withdrawal from the University. Your withdrawal will be effective on the date you sought treatment from Hudson Health Center for your illness or injury, or the last date you attended classes, depending upon your particular circum-

stances. If you were treated by an outside physician who has recommended a medical withdrawal, that recommendation must be approved by the medical director of Student Health Services.

To arrange for a medical withdrawal, contact the medical director of Student Health Services for physical health problems, or the director of Counseling and Psychological Services for mental health problems. The appropriate director will then make written recommendation to your academic dean for a medical withdrawal.

It is possible to medically withdraw up through the ninth week of the full academic quarter or up through the fourth week of any summer session. After that, the appropriate director and the academic dean of your college must consult and agree on the withdrawal.

If you are granted a medical withdrawal, you will receive notification in the mail from the medical director. A refund of fees, if applicable, will be based on the effective date of your withdrawal and will be made according to the schedule under the Refund of Fees section. A medical hold will be placed on your records, and to re-enroll, you must request a medical clearance from the appropriate director. Once the clearance is approved, the hold will be released.

Class Attendance Policy

The weight given to class attendance in determining your grade is an academic matter; therefore, all instructors are responsible for their own attendance policies. Though your instructor will state his or her specific attendance requirements during the first week of classes each quarter, please be aware that the University expects you to attend classes regularly.

Excused Absences. Although instructors' policies govern how excused absences will be handled in their classes, certain absences are considered legitimate by the University. These include the following: illness, death in the immediate family, religious observance, jury duty, and involvement in University-sponsored activities.

If you are returning to class after a legitimate absence, you can expect your instructors' assistance (makeup work, excused absences, change of grade computation) within the limits of their established attendance policies. There are occasions when the size or the nature of the course makes it necessary to set limits on the number of excused absences or the availability of makeup work, particularly for examinations or such special events as field trips or outside speakers. Such limitations should be explained in the instructor's attendance policy at the beginning of each course. *If you are involved in University activities that may conflict with your class schedule, check with your instructor as early as possible to make satisfactory arrangements.*

You may document reasons for your absence as follows:

If you are participating in an authorized University activity (departmental trip, music or debate activity, ROTC function, or athletic competition), you can obtain notification from the sponsoring office.

If you are hospitalized as an inpatient at O'Bleness Hospital, you are not issued a notification of class absence; however, you may request that your instructor call Hudson Health Center to verify hospitalization on certain days.

If you receive medical care as an outpatient at Hudson Health Center, you will not be issued a notification of class absence. However, if you give written permission for the information to be released, you may request that your instructor call Hudson Health Center (the attending physician, if possible) for verification that you received outpatient care. It is assumed that, if you visit the health center as an outpatient, you will do so, whenever possible, without missing class.

Medical care from health care personnel or facilities other than University Medical Services will require that you provide verification, from the attending medical personnel, of the dates you received care.

If your grade has been affected by a legitimate absence or absences that your instructor does not excuse, you may appeal through the normal grade appeal process, i.e., through first the instructor, then the department chair or school director, and then the dean of your college. If satisfaction is not achieved through this process, the dean will appoint a faculty committee of five members, including the chair or director of the department/school in question, to consider your case and render a decision. The decision of this committee is not subject to further appeal.

Two-Hour Rule. If you miss the first two contact hours of a course for which you have registered, the instructor has the option of removing you from the class roster. (Please note that this policy applies to the first two *hours* of a class, not to the first two class meetings.) If you miss the first two contact hours, you should check with your instructor to verify your status in the class. If you have been removed, you will need to arrange to drop the course through TRIPS the first 14 days or by change order in the dean's office. (See Change of Course Schedule.) **Note: If you are removed from the class roster, you still must drop the class. Otherwise, you will receive an F or an I* grade for the class at the end of the quarter.**

Auditing and Visiting Privilege

You may register to audit courses, which allows you to preview or review courses without receiving a grade or credit hours, but the choice to audit must be made and identified as such at the time of registration. Changes from audit to credit or from credit to audit must be made during the first 14 calendar days of the quarter. Please note that audited courses count in calculating tuition, but they do not count toward financial aid eligibility.

Your instructor may set up specific requirements for auditing the course, and if you do not meet those requirements, you may be removed from the course at your instructor's discretion. Be sure to discuss your auditing status with your instructor at the first class meeting.

If you are a full-time student, you have the privilege of visiting classes for which you haven't registered if you obtain the instructor's permission ahead of time.

Taking Graduate-Level Courses

As an undergraduate student, you are not eligible to take graduate courses for credit unless you are in the Honors Tutorial Program or unless you participate in one of the following programs:

Senior for Graduate Credit. If you are an Ohio University student, or a well qualified senior attending another university, who is within nine hours of completing all requirements for the bachelor's degree, you may be eligible for graduate study as a senior. You must have an overall g.p.a. of at least 2.5 and secure written permission from the graduate chair of the department or departments offering the graduate courses and from your college dean. Permission to take such courses does not grant admission to a graduate degree program. If you are admitted as a senior for graduate credit, you will pay undergraduate fees and will not be eligible for graduate associate or graduate scholarship support. Generally, no more than two graduate courses may be taken in this way, and the graduate course(s) will not fulfill any undergraduate requirements. The graduate credit becomes part of your graduate record only; it does not affect your undergraduate hours earned or g.p.a.

You should request this option through the Office of Graduate Student Services prior to registration. A \$10 application fee is charged, and admission is granted for one quarter only.

Early Admission to Graduate Program.

Based on superior undergraduate performance, you may qualify for early admission to a graduate degree program. You must have an overall g.p.a. of at least 3.5 and must have completed all undergraduate requirements, except the total credit-hour requirements, by the time you enter the graduate degree program. You also must secure written permission from your department, the department's graduate committee, and the dean of your undergraduate college. Once admitted, you may enroll in graduate courses for graduate credit. These courses can be used to satisfy both undergraduate and graduate degree requirements; however, the hours and grades are part of your graduate record only. Application must be made prior to registration through the Office of

Graduate Student Services. If you qualify for early admission to a graduate degree program, you pay graduate fees and are eligible for graduate associate or scholarship support.

Final Examinations

Final examinations for courses are held during a formal examination period at the end of the academic term. You are required to take the examinations according to the schedule issued by the Registrar's Office and published in the quarterly *Schedule of Classes*.

The final examination for honors work must be taken before the opening of the regular examination period. For information concerning honors work, consult your departmental honors program coordinator.

Grading Information

The basis for determining your scholastic standing is the grade-point average (g.p.a.). This average is determined by dividing the total number of grade points you have earned by the total number of quarter hours of credit you have attempted. For example, if you have earned a C (2.0) and a B (3.0) in each of two five-hour courses, you first multiply the number of hours in each course by the grade points for that grade: $5 \times 2 = 10$ and $5 \times 3 = 15$ to find the total number of grade points: 25. Then you add the number of hours attempted: $5 + 5 = 10$, and divide the total number of grade points by the total hours attempted: $25 \div 10 = 2.5$. Thus your g.p.a. after completing the two courses would be 2.5.

Your g.p.a. is figured only on the credit hours attempted—those courses for which you receive a letter grade (A-F) or an administrative incomplete (I*). The grades that are considered hours earned, but are not figured into the g.p.a., are listed, along with all grades used by Ohio University, in the following information.

Grade Reports

At the close of a session or upon completion of a course, the instructor reports a grade indicating the quality of your work in the course. Once grades are submitted, they are final and cannot be changed unless evidence of an error can be presented. *Grades cannot be changed by arranging to complete additional work.* Points are assigned for each quarter hour of credit completed, according to the following grading system:

A	4.0	B+	3.33	C+	2.33	D+	1.33
A-	3.67	B	3.00	C	2.00	D	1.00
		B-	2.67	C-	1.67	D-	0.67
				F	0.00		

CR—Credit. In addition to the above grades, a report of credit may be made for certain pre-approved courses. This is credit without grade points, which means credit is added to the hours earned, but not added to the hours attempted for grade-point calculation. Credit is to be used for certain courses and only by prior approval of the Curriculum Council or in certain special cases by the dean of the college. Some colleges may limit the number of CR's applied to the major and to the degree.

PR—Progress. This grade is primarily used at the graduate level. It is used for just a few very specific undergraduate courses. This grade indicates that you have made progress in the course, but have not finished the work required for releasing a letter grade. Progress may extend longer than one quarter and is not calculated in the g.p.a.

I—Incomplete. Receiving an I means that you have not completed the work required for a regular grade. It is not counted in the g.p.a. You must have the instructor's permission to receive the incomplete, and you must complete the work within the first six weeks of your next quarter of enrollment, or the I converts automatically to an F. You may request a one-time extension to the end of the quarter from your instructor. He or she must then complete a request for the extension through the Registrar's Office.

When you apply for graduation, any incomplete grades on your record will be calculated as F grades for the purpose of determining eligibility for graduation. If the I is not completed within six weeks after graduation, the grade converts to an F.

WP/WF—Withdrawal Pass/

Withdrawal Fail. Used to designate a course dropped after the 14th day of the quarter. These do not count in the g.p.a.

Grade reports that may appear on your grade slip but which are not assigned by a faculty member consist of the following:

AU—Audit. Indicates formal participation in a course, but not for credit or a regular grade. If you register for an audit, you are expected to attend and participate in classes consistent with the instructor's policy. Your failure to do this can result in removal of the audit from your record. If this action results in a change of fees, the official University policy on refund of registration fees will apply. Audited courses are not computed in the g.p.a. or hours earned.

I*—Administrative Incomplete.

This report is given when you do not officially drop a course for which you registered but did not attend or stopped attending, or when an instructor assigns an ineligible grade, such as a PR or WP/WF. The I* is given by the Registrar's Office and may be removed by your college if you can establish that your lack of attendance was appropriate. Until removed, an administrative incomplete will be computed as an F in the calculation of the g.p.a.

NR—No Report. This grade is assigned when the instructor leaves the grade blank on the grade report. The NR also may be the result of a faculty member's assigning a grade that is not coded as legitimate for the course, or submitting the grades too late to be processed. NR is not computed in the g.p.a. or hours earned.

P—Pass. Conversion of grades A through D- under the pass/fail option. Credit is awarded, but the g.p.a. is not affected. The fail (F) grade counts in the g.p.a. the same as any F grade.

A course for which graduation credit is not allowed or a course that has been retaken will be identified on the transcript. Grades for these courses do not affect the g.p.a., and credit hours do not count toward graduation.

Retaking a Course

A regular course with fixed content can be retaken to affect your g.p.a. Retaking the course removes the hours and the effect of the earlier grade from the calculation of the g.p.a. However, please note that the later grade is the one calculated in the g.p.a., even if it is lower than the first, and that the course credit hours duplicated by retaking coursework are not accepted toward the credit-hour requirement for graduation.

As a rule, a course designated as a prerequisite may not be retaken to affect the g.p.a. after you have completed higher-level coursework in the same subject area. Also, courses taken at Ohio University and retaken at another university are not eligible for grade-point adjustment under this policy. You should be aware that some departments place limits on the number of times a course may be retaken, so check with your dean's office regarding restrictions.

Please note that retaking a course after graduation will not change your graduation g.p.a., honors status, or rank in class.

Pass/Fail Grading Option

Taking a course pass/fail is an option designed to encourage you to explore areas of study in a way that will not negatively affect your g.p.a. To be eligible, you must have a g.p.a. of 2.5 or better for your latest quarter of full-time enrollment, or have an accumulative g.p.a. of 2.0 or better. If you are a first-quarter freshman, you automatically meet the above requirement.

The pass/fail option is subject to the following restrictions: (1) no course taken pass/fail may be used to fulfill any graduation requirement (college, school, or department) other than the total-hours requirement. For example, courses taken pass/fail cannot be used to satisfy distribution requirements, minor and certificate requirements, requirements of courses above a specified level, a specific course established as a major requirement, or any other such requirements;

(2) you may take no more than one course per quarter by pass/fail; (3) you may complete no more than 20 quarter hours under this option; and (4) the professor or instructor is not to know who elects his or her courses on the pass/fail option. A grade will be turned in at the regular grade-processing time and will be converted to a P or F on the transcript. The original letter grade cannot be retrieved.

You must initiate the option by completing the Pass/Fail Application Form and returning it to the dean's office of your college by the 14th calendar day of the quarter. After this date, no changes can be made. Please note that you cannot process pass/fail applications through TRIPS.

Segmented Transcript Policy

The segmented transcript policy was developed as a way to allow those of you who left the University with low grades and are now re-enrolling after an absence of six or more years to begin coursework without the threat of academic probation. Under this policy, all of your courses will be reflected on your transcript, but the grades you have earned earlier will be temporarily changed to NR and NC, which removes them from the calculation of the cumulative g.p.a., while the hours earned will be carried forward.

The new g.p.a. after segmentation will be used for determining your probationary status and liability of being dropped (see Academic Probation section). The new g.p.a. also *may* be used, at the discretion of relevant officials or committees, to determine your eligibility for entrance to academic programs or for scholarships and honor societies, although they also have the option of using both current and previous g.p.a.'s.

However, please be aware that the g.p.a. for determining the 2.0 minimum overall g.p.a. for graduation and in the major, as well as the g.p.a. for determining honors status at graduation, will be based on *all* hours attempted at Ohio University, including those attempted before segmentation. Upon graduation, all grades are returned to the originals and recalculated into the g.p.a.

Subsequent gaps of six or more years will not result in further segmentation of your transcript.

You must petition your college dean to have your transcript segmented; further information about, and application forms for, the segmented transcript policy, are available from the dean's office of your college.

Dean's List

The Dean's List, compiled at the close of each quarter, includes the names of all students who have g.p.a.'s for the quarter of at least 3.3 on a minimum of 16 quarter hours of credit earned, including at least 12 hours attempted for letter grades.

Disciplinary Actions

Academic Probation

To remain in good academic standing with the University, you must maintain an accumulative g.p.a. of at least 2.0. At the close of each quarter if you are a full-time student, your grade record will be reviewed to verify your g.p.a. If you are a part-time student, the review will take place at the close of the quarter in which your accumulative number of hours of enrollment since your initial enrollment, or since your last review, exceeds 10.

Probation and Continuation. If, at the time of the review, you do not have the required 2.0 minimum g.p.a., you will be placed on academic probation. If you are on probation already, you may be allowed to continue at the University until the next review, if, in the opinion of the dean, you are making adequate progress toward attaining a 2.0 g.p.a. A continuance can be granted a maximum of three times; thus, there is a limit of four consecutive quarters on academic probation if you are a full-time student.

Normally, adequate progress, as determined by the dean, is based on the number of deficiency points you have, which is determined by multiplying your total number of hours attempted by two and subtracting this from all points earned. (Example: you have attempted 40 hours and have earned 65 grade points for those hours. Multiplying hours

by 2 equals 80. Subtract the number of grade points from that: $80 - 65 = 15$ deficiency points.) Increasing your grade points for additional hours can decrease your deficiency points, which indicates that adequate progress is being made. This can be done by earning grades C+ and above in the hours you attempt.

In addition to the minimum 2.0 g.p.a. required by the University, some colleges may require higher standards of performance. If you have been dropped from a college because of failure to meet such additional standards, but are not subject to dismissal according to the University rules below, you are still eligible for admission to other programs in the University.

Removal from Probation. If you are a full-time student, removal of probationary status is automatic at the close of each quarter when your accumulative g.p.a. rises to 2.0 or above.

Dismissal and Reinstatement. If you are denied continuation of probation, you will be dropped from the University. A status of "Drop I" means you were dropped because of an increase in deficiency points. "Drop L" means you reached the limit of four probationary quarters. Upon notification, you will not be able to enroll for regular courses on any Ohio University campus.

You may petition the dean of your college for reinstatement, but normally a petition for reinstatement will not be considered for at least 12 months after your dismissal. As a condition for reinstatement, the dean of your college may suggest certain remedial steps you can take, usually in the form of courses to be taken at other institutions or through Independent Study by correspondence or Course Credit by Examination. However, such steps will not constitute sufficient grounds for waiving or shortening the waiting period for reinstatement.

If you have been dropped from the University for a second time, you cannot be considered for reinstatement for at least 24 months after your second dismissal, and then reinstatement is possible only under extraordinary circumstances.

Academic Misconduct

All forms of academic misconduct are prohibited by the Code of Student Conduct. Academic misconduct refers to dishonesty in assignments or examinations (cheating), presenting the ideas or the writing of someone else as your own (plagiarism), or knowingly furnishing false information to the University by forgery, alteration, or misuse of University documents, records, or identification. Academic misconduct includes, but is not limited to, the following examples: permitting another student to plagiarize or cheat from your work, submitting an academic exercise (written work, printing, sculpture, computer program) that has been prepared totally or in part by another, acquiring improper knowledge of the contents of an exam, using unauthorized material during an exam, submitting the same paper in two different courses without the knowledge and consent of your professors, or submitting a forged grade change slip.

If you have committed any act of academic misconduct, as determined by the judgment of a faculty member, or by the procedures of the Office of University Judiciaries, serious action—which may include failure of work undertaken, failure in the course, and/or formal disciplinary action, including suspension or expulsion by the Office of University Judiciaries—will be taken against you.

In cases of academic misconduct, a faculty member has the authority to grant a failing grade. If your course grade is lowered by an instructor who has accused you of plagiarism, you may appeal this grade through, first, the instructor, then the department chair or school director, and then the dean of your college. If satisfaction is not achieved through this process, the dean will appoint a faculty committee of five members, including the chair or director of the department or school in question, to consider your case and render a decision. The decision of this committee is not subject to further appeal.

The faculty member also has the discretion to refer your case to the director of judiciaries. The director of judiciaries, the University Hearing Board, and the University Appeal Board have the authority to take formal action that includes, but is not limited to, suspension or expulsion from the University. However, the director of judiciaries, the University Hearing Board, and the University Appeal Board have no authority to modify a grade given by a faculty member.

If you wish to appeal an action of the University Judiciaries or the University Hearing Board, such as suspension or expulsion, you then take the matter to the University Appeal Board. Details of appeal procedures are included in the current *Student Handbook*.

Further information on academic misconduct is available from the Office of University Judiciaries, telephone 614-593-2626.

Student Records Information

Student Records Policy

Consistent with the Family Educational Rights and Privacy Act of 1974, all of Ohio University's policies and practices governing the collection, maintenance, review, and release of student records will be based upon the principles of confidentiality and your individual right to privacy. The specific policy is detailed in the Appendix section of this catalog.

Obtaining Transcripts

To order an official transcript of your academic record, you need to submit a signed release form (available in Chubb Hall) or a letter of request, along with a \$2 processing fee for each transcript, to the Registrar's Office. After three to five working days, you may pick up transcripts in Chubb Hall, or you can arrange to have them sent to a designated address.

Transcripts carry a statement of good standing or academic probation status, as well as an indication of placement on the Dean's List for a given term. All Ohio University coursework is included on the transcript, including regional campus coursework.

Replacement of Diploma

To obtain a replacement diploma, you must file a notarized affidavit attesting that the original diploma has been lost

or destroyed, or a copy of a court order or marriage certificate verifying a legal name change, to the Registrar's Office, along with a request for a new diploma. In case of a legal name change, you also must return the original diploma. The fee for replacement is \$15.

The replacement diploma will carry current titles and signatures of University officers. It also will carry the notation "official replacement." Please allow 10 weeks for delivery.

Graduation Requirements—University Wide

Catalog of Entry

When you first register at Ohio University, the degree and major requirements you must fulfill are determined by the catalog of entry—that is, the catalog published the year in which you register—and are effective for a period of five years after the date of your first registration. If you do not meet all degree requirements within five years, the requirements of the current catalog apply.

Changes in either major or nonmajor requirements that are made necessary by altered or discontinued courses or by requirements imposed by external accrediting or certification agencies will be resolved on an individual basis by the dean of your college. Wherever it is possible, new requirements will be implemented with a beginning class or upon the expiration of the appropriate time limit.

If you are a transfer student, you are governed by the same regulations, except that the number of years in which to complete the degree requirements is reduced by the number of years of work you transfer.

Requirements

In fulfilling requirements for graduation, you must be mindful that Ohio University has two sets of requirements to meet: University-wide requirements, which all students must complete, and college-level requirements, which include the requirements for completing your major or minor. University-wide requirements are discussed in the following paragraphs. Specific college-level and department-level requirements for majors and minors are explained in the Colleges and Curricula section of this catalog under the appropriate college listing. If you are a transfer student, you should note that some colleges or majors may require you to take additional courses to meet specific major requirements.

In general, you must have a minimum of 192 quarter hours of credit for a bachelor's degree, with all college requirements met. The associate's degree requires a minimum of 96 quarter hours.

Please note that no more than eight credit hours earned in developmental courses may be applied toward the total hours required for graduation. Developmental courses include CHEM 115, ENG 150, ENG 150F, MATH 101, MATH 102, and UC 110, 110A, 110B, 112, 112A, 112B, 114.

The University also recommends a minimum of 50 hours completed in the major and a minimum of 24 hours completed in the minor, though the specific requirements you will have to meet will be determined by your major and your minor (should you elect a minor) departments. You also must have a g.p.a. of 2.0 (C) on all hours attempted and in the major or equivalent as determined by your college.

All baccalaureate students (except Honors Tutorial College students) also must complete Ohio University's General Education Requirements, which follow. Associate degree students must complete the freshman English and quantitative skills requirements.

General Education Requirements

Ohio University believes that, as an educated person, you need certain intellectual skills in order to participate effectively in society. These include the following:

The ability to communicate through the written word and the ability to use quantitative or symbolic reasoning.

Broad knowledge of the major fields of learning.

A capacity for evaluation and synthesis.

To help you meet these objectives, Ohio University has instituted a University-wide three-tier General Education Requirement that all baccalaureate degree students (except Honors Tutorial College) must fulfill. Tier I consists of course requirements to build quantitative and English composition skills; Tier II consists of course requirements to increase your breadth of knowledge; and the Tier III course requirement develops the ability to interrelate, synthesize, and integrate knowledge from different academic disciplines.

Tier I Requirements

Quantitative Skills

If you are entering Ohio University as a freshman on or after September 1980, you are required to demonstrate an acceptable level of quantitative skills. You will be given a placement exam to determine if you must take a basic quantitative skills course (MATH 101 or 102) prior to enrolling in one of the following Tier I courses:

CS 220
MATH 113, 115, 117, 118, 151
MATH 120, 121 (elementary education and early childhood/primary majors only)
PHIL 120
PSY 121

These courses are marked in the Courses of Instruction section of this catalog by the designation (1M) following the title and credit hours.

By demonstrating exceptional quantitative skills—as evidenced by your score on the Mathematics Placement Examination—you may be placed into a math course beyond the Tier I level. Passing a math course that is beyond Tier I will satisfy the Tier I requirement.

English Composition

You must also demonstrate an acceptable level of writing skill. You will be given a placement exam to determine if you should take a basic writing skills course (ENG 150) prior to your enrollment in ENG 151, 152, or 153. The latter courses are marked in the Courses of Instruction section of this catalog by the designation (1E) following the title and credit hours.

An advanced composition course is also required. If you are unable to demonstrate advanced writing proficiency at the junior level, evidenced by passing the junior-level exemption exam given each quarter, you must take an approved advanced writing course. Currently, the following course offerings fulfill the junior-level composition requirement:

ANTH 356J	HLTH 370J
ART 300J	HREC 370J
CA 360J	IT 370J
EDCI 331J	JOUR 441J
ENG 305J, 306J, 307J, or 308J	MGT 325J
FILM 344J	ML 321J or 370J
GEOG 375J	PHIL 301J or 360J
HCGE 345J	POLS 305J
HIST 301J or 396J	SOC 356J

These courses are marked in the Courses of Instruction section of this catalog by the designation (1J) following the title and credit hours.

If you are a transfer student, your requirements are determined by when you enroll and the number and type of credit hours transferred.

Tier II Requirements

If you are entering Ohio University as a freshman on or after September 1981, you are required, prior to graduation, to complete a total of 30 credit hours from an approved list of courses in the following five distribution areas:

- Applied Sciences and Technology (A)
- Humanities and Fine Arts (H)
- Natural Sciences and Mathematics (N)
- Social Sciences (S)
- Third World Cultures (T)

You are required to take at least four credit hours in four of the five areas and may satisfy no more than two of the required four areas with courses from the same department. Also, you may satisfy no more than 12 of the 30 hours with courses from the same department.

Courses that fulfill a Tier I requirement cannot be applied toward Tier II. You may apply one approved Tier II course in your major department toward the partial fulfillment of the Tier II requirement. (In the case of Bachelor of Specialized Studies, one approved Tier II course in the area of concentration may fulfill a Tier II requirement.)

You may select, in consultation with your advisor, courses from among the following departments as listed by their catalog numbers to fulfill the Tier II breadth of knowledge requirement. Please consult the Courses of Instruction section of this catalog for descriptions of courses currently approved. Approved courses are marked by (2A), (2H), (2N), (2S), or (2T) following the title and credit hours.

Applied Sciences and Technology (2A)

Biological Sciences: 220
Chemical Engineering: 331
Chemistry: 101
Computer Science: 230
Engineering and Technology: 280, 320, 350, 470
Geography: 201, 260
Geology: 215, 231
Health Sciences: 202
Hearing and Speech Sciences: 108
Human and Consumer Sciences-Food and Nutrition: 128
Industrial Technology: 110
Microbiology: 211, 212
Plant Biology: 103, 160

Humanities and Fine Arts (2H)

African American Studies: 110, 150, 210, 211, 250, 350
Art: 100
Art History: 211, 212, 213
Comparative Arts: 117, 118, 211, 212, 213, 270, 271, 272
Dance: 170, 471, 472, 473
English: 200, 204, 205, 206
Film: 201, 202, 203

Foreign Languages and Literatures:

Classical Languages: 127, 234, 235, 236, 237.

French: 211, 212, 213.

German: 211, 212, 213.

Greek: 211, 212, 213.

Italian: 211, 212, 213.

Russian: 211, 212, 213.

Foreign Literatures: 335, 336, 337, 338A, 338B

History: 121, 122, 123

Humanities: 107, 108, 109, 117

Interpersonal Communication: 101

Music: 100, 120

Philosophy: 101, 130, 160, 216, 232, 240, 260, 310, 311, 312, 361, 362

Theater: 170, 171, 270, 271, 272

Women's Studies: 100

Natural Sciences and Mathematics (2N)

Anthropology: 201
Astronomy/Physical Science: 100, 100D, 101, 101L, 105, 105L, 140
Regional campuses only: 121/121L, 122/122L, 123/123L
Biological Sciences: 100, 103, 171, 172, 173, 225; and 130, 131 (OU-Chillicothe and Zanesville campuses only)
Biology: 101
Chemistry: 121, 122, 123, 151, 152, 153
Geography: 101
Geology: 101, 120, 211, 221
Mathematics: 163AB, 263ABC
Microbiology: 201 (OU-Chillicothe and Zanesville campuses only)
Physics: 201, 202, 203, 251, 252, 253
Plant Biology: 100, 100L, 102, 110, 111

Social Sciences (2S)

African American Studies: 101, 202
Anthropology/Archaeology: 202
Economics: 103, 104
Geography: 121, 132
History: 101, 102, 103, 211, 212, 213, 315AB
Human and Consumer Sciences-Child Development: 160
Interpersonal Communication: 351, 352, 353
Journalism: 105
Linguistics: 270
Management: 200
Political Science: 101, 102, 103, 210, 230, 250, 270, 331
Psychology: 101
Social Work: 101
Sociology: 101, 201, 223
Telecommunications: 105

Third World Cultures (2T)

Anthropology: 101
 Art History: 330, 331
 Dance: 351, 352, 353
 English: 331, 332, 333
 Foreign Languages and Literatures:
Arabic: 211, 212, 213
Chinese: 211, 212, 213
Indonesian/Malaysian: 211, 212, 213
Japanese: 211, 212, 213, 250
Spanish: 211, 212, 213, 349
Swahili: 211, 212, 213
 Geography: 131
 History: 131, 246, 323ABC, 335AB,
 341ABC, 345ABC, 346AB
 International Studies: 103, 113, 121
 Philosophy: 370, 371, 372
 Political Science: 340

Tier III Requirement

If you are entering Ohio University on or after September 1982, you are required, after attaining senior rank, to take one of the courses approved as meeting the Tier III criterion of interdisciplinary synthesis. If you're a transfer student, consult with your college on the Tier III requirement. Please consult the Courses of Instruction section of this catalog, under the heading Tier III, for a full listing of Tier III courses.

Residence Requirements For Graduation

Like most universities, Ohio University requires that you be "in residence" for a certain number of credit hours in order to graduate. Some individual colleges have additional residence requirements, so be sure to check with your advisor or the dean's office to make certain that all requirements are being met.

Residence credit is defined as any credit earned by regular enrollment at Ohio University on the Athens campus, on any of the regional campuses, by any of the approved programs abroad, by any approved student teaching, by Independent Study and Course Credit by Examination arranged through the University's Independent Study Program, by degree credit earned through the Office of Continuing Education, or by any combination of these options.

Bachelor's Degree

If you have completed fewer than 96 quarter hours at Ohio University, the minimum requirement is to be "in residence" your final three quarters, with 48 hours of resident credit as defined above. If you have completed 96 or more quarter hours at Ohio University, *the final quarter shall be in residence* with resident credit as defined above.

If you begin graduate study at Ohio University before completing all requirements for a bachelor's degree, your residence requirement will be reduced by as many hours as credit hours of graduate work completed. The number of hours subtracted will be credited toward the residence requirement for a master's degree if the credit is acceptable in the program approved for graduate work toward a degree. Residence credits used for meeting requirements for one or more bachelor's degrees may not also be used for meeting the residence requirements for the graduate degree.

The residence requirements apply even if you have been approved for graduation *in absentia* and are completing your last year in an accredited institution, except that the regulations apply to residence before you leave the University. (See *In Absentia* section.)

Associate's Degree

If you are completing an associate's degree, you must earn at least 30 quarter hours of residence credit at Ohio University. Moreover, those of you who complete fewer than 60 quarter hours of Ohio University credit must earn at least eight of your final 15 hours as residence credit as defined in the beginning paragraphs of this section.

In Absentia

To be considered for *in-absentia* status, you must obtain written permission from the dean of the college in which you are enrolled. If you have been approved for the senior-*in-absentia* privilege, you must complete a full year's work in an Ohio University-approved professional school and be eligible for advancement without condition to the second year in order to obtain your bachelor's degree *in absentia*. The *in-absentia* privilege does not apply to graduate degree programs.

The official transcript from the school you attend must be submitted to the Office of Admissions, Chubb Hall 120, Ohio University, before the degree-conferring date.

A Second Bachelor's Degree

If you plan to earn two bachelor's degrees, you may meet the requirements for them either simultaneously or successively:

- 1** If you want to complete requirements for two degrees conferred on the same date, you must meet the requirements for both degrees and must have completed a total of 13 quarters of college work or its equivalent (208 hours), with a minimum of five quarters of residence, or the equivalent, at Ohio University. When the two degrees are offered by different colleges, you must register in both colleges and meet the residence requirement the quarter in which the degrees are to be conferred.
- 2** If you have met the requirements for two degrees as stated above and want to have the degrees conferred in successive quarters, you may do so without further credit or residence. For example, one degree may be conferred at the end of one quarter and application made for the second degree in a subsequent quarter.
- 3** If you want to take a second bachelor's degree after receiving the first, you must complete the requirements for the second bachelor's degree and meet the residence requirement in the college offering the second degree. (See individual college requirements under the Colleges and Curricula section of this catalog.)

Graduation Procedures

Application

If you are a candidate for graduation, you must make application in the Registrar's Office and pay the application fee no later than the deadline listed in the academic calendar for the quarter in which graduation is planned. This application initiates the process that informs your college to check for fulfillment of degree requirements. The process culminates with the entry of the college, major, other concentrations, if any (such as minor, dual certification in education, etc.), degree, and date of granting the degree on your permanent academic record. At the end of this process, your graduation g.p.a., class rank, and eligibility for honors are also determined and cannot be changed by completing additional coursework or by retaking classes.

The application fee for a bachelor's degree is \$16 and for an associate's degree, \$8. If you fail to meet the requirements for graduation, you may reapply for the quarter in which you plan to complete the requirements. The fee for reapplication is \$5.

Graduation with Honors

If you graduate with an accumulative g.p.a. of 3.0 to 3.49, your accomplishment will be recognized by the notation "with honor" in the Commencement program and "cum laude" on your diploma. If your average is 3.5 or above, your accomplishment will be noted by "with high honor" in the program and "summa cum laude" on your diploma.

You must complete a minimum of 48 hours of letter grades in residence at Ohio University to be eligible for honors. If you have successfully completed a program of study with honors, it is noted in the Commencement program and on your diploma.

Granting of Degrees and Commencement

If you are a candidate for spring quarter graduation, or if you have earned your degree during the preceding summer, fall, or winter quarters, you are invited to attend Commencement, held at the end of spring quarter. Details concerning Commencement will be sent to you after you've applied for graduation, provided you complete and return the commencement information sheet given to you at the time you submit your graduation application. Questions concerning Commencement should be directed to the Office of Public Occasions, 614-593-1761.

Services for Students

Academic Advancement Center

The Academic Advancement Center helps you develop the skills and attitudes necessary to master college-level work successfully. Individualized instruction is available free upon request in reading, writing, mathematics, and study skills; assistance with keyboarding and word processing also is provided.

As a freshman, you also may enroll in credit-bearing courses in reading and study skills. UC 110 and UC 112 each award two hours of credit; primary emphasis is on immediate application of skills to other academic work. (See the Courses of Instruction section of this catalog for course content descriptions.)

The center also provides tutoring help sessions in many freshman-level courses. You may attend help sessions as frequently as desired to ask questions and to clarify points of confusion. Session schedules are announced by instructors of those courses and are available in residence halls and deans' offices. In addition to free help sessions, private tutor referrals in any course are available from the center. Specific arrangements, including fee payment, are then made between you and the tutor.

Supplemental Instruction is a program provided for those of you enrolled in traditionally difficult courses with class sizes too large for optimal student/professor consultation. To assist you in such courses, an undergraduate who has successfully completed the course is paid to attend lectures, take notes, take exams, and offer four 50-minute study sessions per week. During the study sessions, the student SI leader helps you review lecture and text materials, prepare for exams, learn study skills, and meet other students. Supplemental Instruction, currently funded by grants, has been offered in CHEM 151, 152; BIOS 170, 171; ECON 103, 104; PSY 101; and MATH 163A, 263A, and 263B.

Project CAP, or the College Adjustment Program, is a special program for selected students at Ohio University. Sponsored by the Academic Advancement Center and a TRIO grant from the U.S. Department of Education, it helps new students adjust to college and meet their educational goals. (See the University College section of this catalog for details.)

The Access Program encourages and enables Athens County high school graduates to pursue higher education. The program provides University student mentors to help the coordinator conduct activities at the five high schools in Athens County each week. Topics addressed during the weekly sessions include study skills, preparation for entrance exams, financial aid and college application procedures, career exploration, and college selection. In addition to these weekly sessions, high school students are brought onto the University campus for tours and visits to classes.

For further information about Academic Advancement Center programs, contact the center, located on the first floor of Alden Library, at 614-593-2644.

Affirmative Action

It is the policy of Ohio University that there shall be no discrimination against any individual in educational or employment opportunities because of race, color, religion, national origin, sex, status as a disabled veteran or veteran of the Vietnam era, or disability. Also, there shall be no discrimination because of age, except in compliance with requirements of retirement plans or state and federal laws and guidelines.

The Office of Affirmative Action monitors hiring, promotion, and transfer of faculty and administrators; develops and implements programs and activities that give recognition to the value of diversity; coordinates services for disabled students and employees; advises students and employees about University policies and procedures regarding nondiscrimination; investigates complaints of discrimination; and seeks to foster a climate that encourages the full realization of the University's mission to promote a just and socially responsive community.

If you have a concern about possible discrimination or harassment, you are encouraged to contact the Office of Affirmative Action.

In coordinating services for people with disabilities, the Office of Affirmative Action advises you about specific resources available at Ohio University. (See the Disability Services section of this catalog for more details.)

Sexual Harassment. Sexual harassment of students, faculty, or staff is prohibited at Ohio University. The following is the definition of sexual harassment: unwanted sexual advances, requests for sexual favors, and other verbal or physical conduct of a sexual nature when:

- 1 Submission to such conduct is made either explicitly or implicitly a term or condition of employment or of a student's status in a course, program, or activity; or
- 2 Submission to or rejection of such conduct is used as the basis for decisions affecting the individual; or
- 3 Such conduct has the purpose or effect of unreasonably interfering with the individual's work, performance, or educational experience; or creating an intimidating, hostile, or offensive environment.

Examples (not to be construed as exhaustive) of sexual harassment include:

- 1 Pressure, subtle or overt, for sexual favors, accompanied by implied or overt threats concerning one's job, grades, or letters of recommendation.
- 2 Inappropriate display of sexually suggestive objects or pictures.
- 3 Unnecessary touching, pinching, patting, or the constant brushing against another's body.
- 4 Use of sexually abusive language (including remarks about a person's clothing, body or bodily movement, or sexual activities).

All Ohio University employees and students are responsible for compliance with this policy. All University supervisory personnel have an affirmative responsibility to discourage and eliminate conduct inconsistent with this policy. Specific concerns or complaints regarding sexual

harassment should be brought to the attention of the supervisor of the alleged offender. The offices of Judiciaries, Personnel, Affirmative Action, or the University Ombudsman may be consulted or apprised of the complaint. Such consultation will be held in absolute confidence, and no action will be taken without the knowledge of the complainant.

Information regarding University programs and policies, as well as related state and federal provisions, is available through the Office of Affirmative Action, Crewson House 101.

Campus Safety

The Department of Campus Safety is responsible for ensuring the safety and well-being of the University community, as well as the security of all University property. The department oversees the Campus Escort Service and emergency call phones, and reviews lighting conditions to help ensure a crime-free campus. The department also oversees vehicle parking registration on campus. (See Parking under this section of the catalog.)

The Campus Escort Service is a free service that offers you a safe walk every night from 8 p.m. to 1 a.m. Escorts are trained student employees who communicate by radio with the department. Teams consist of a female and male or two females. You can call 593-4040 to arrange for an escort in advance, or you can call to specify where you are, and a team will arrive to escort you within minutes.

Emergency "Blue Light" Phones are installed outside the main entrance of each residence hall and at the following locations: Hudson Health Center, Seigfred Hall, Memorial Auditorium, Parks Hall, Bird Arena, and Peden Stadium. By pushing the red button, you can obtain emergency help, Campus Escort Services, information on campus directions or parking, and referral to other campus services.

Safe and secure lighting has been installed throughout the campus. Most recently, high intensity lights have been installed along the golf course section of the bicycle/jogging path that parallels the Hocking River.

The Bicycle Loan Program offers a limited number of bicycles for loan for up to two days. To apply, you must show your student ID and sign a waiver card releasing the University from liability in case of injury. Arrangements can be made by calling 593-1911.

In compliance with the Crime Awareness and Campus Security Act of 1990, the Department of Campus Safety releases a yearly report on campus safety and crime rates. This report may be obtained by calling 614-593-1911, or by writing to the Department of Campus Safety, Ohio University, Scott Quad 135, Athens OH 45701-2979.

Career Services

The Office of Career Services offers you assistance in making career decisions, gaining experience to explore career options, and conducting effective job searches. Services include:

Individual career advising, including identification of interests, abilities, and values.

Computerized career guidance programs.

Seminars on career decision-making, resume preparation, interview techniques, and other aspects of the job search.

A Mock Interview Program that allows you to practice and improve your interview performance.

Career Fairs that bring a variety of employers to campus to discuss career opportunities.

A Career Resource Library containing a wealth of material; career information, employer directories, graduate school guides and admissions test bulletins, internship/summer job listings, employer literature, and professional job vacancies.

In addition to the above services, which are free to all students, Career Services provides special assistance to students who register with the office. These include on-campus interviewing, resume referral, and a bi-weekly job listing. Registration requires payment of a nominal fee; submission of required materials;

and, for those of you graduating during the current academic year, attendance at an orientation seminar explaining services, procedures, and basic job-hunting techniques.

You are encouraged to work with the Office of Career Services throughout your University experience for assistance in all career-related matters.

Computing and Technology Services

Computing Services. The Instruction and Research Center (IRC) provides state-of-the-art computing resources and facilities to you at no charge (except for laser printing). Professors or instructors arrange for your access to course-specific computer resources.

The Instruction and Research Center operates a number of satellite labs across the campus where you may use computer terminals or microcomputers for your academic work. All terminals and many of the microcomputers in the labs can be used to access Ohio University's network of computers.

The labs are located across the campus, including Alden Library, the Computer Services Center, Copeland Hall, the Innovation Center, Grover Center, the Music Building, Stocker Center, Ellis Hall, and Morton Hall. Many departments also operate computing labs for their own students. The departmental and IRC-managed locations have a wide variety of microcomputer software available, including Fortran, Pascal, Basic, WordPerfect, Lotus, MacWrite, MacDraw, and many others.

Three dormitories have labs available. Both Jefferson Hall and Brough House have a lab with Macintosh and PC systems and a printer connected to the campus computer network. Hoover House contains microcomputers that can also be used to access the main-frame computers.

The Alden Instructional Support Lab houses 26 self-instructional audiovisual carrels allowing you to use videocassette playback equipment, as well as synchronized slide and filmstrip equipment, as required by academic courses.

The main offices for the Instruction and Research Center are in the Computer Services Center Instructional Support Lab, located on the ground floor of the Computer Services Center. The Alden Instructional Support Lab is located on the second floor of the Alden Library. Hours for the computer labs are posted in the labs on a quarterly basis.

A network of high-speed printers is conveniently located around the campus for mainframe printed output. Most of the micro labs contain at least one letter-quality printer, and high-quality laser printer output is available in the Alden and Computer Services Instructional Support Labs.

Communications. Ohio University Communication Network Services (CNS) provides telephone, data, and video communications to the University community. In addition, CNS provides maintenance and technical support for microcomputer hardware and audiovisual equipment. The communication system relies on fiber optics and the latest in digital switching equipment. Telephone and data communications are being updated at the regional campus locations in order to link all campuses together electronically.

A brochure describing all computing and technology services is available to you from the Office of Computing and Technology Services.

Counseling and Psychological Services

Counseling and psychological services are available to you on an individual and group basis for educational, career, and personal adjustment concerns. Confidential consultations are provided by a staff of counselors, psychology trainees, and psychologists.

If you are having academic difficulties, you may receive help in understanding and resolving your concerns so that you may improve your performance.

If you are uncertain about your educational or career objectives, you may obtain assistance in appraising your abilities, interests, performance, etc., so that you may identify more appropriate and satisfying directions.

If you have personal problems of any kind (emotional, social, marital, substance abuse, stress, etc.), you may receive help in understanding and resolving those difficulties.

Workshops on a variety of topics, designed to reinforce your educational, social, and personal growth, are frequently offered and widely publicized.

You can make an appointment to discuss your educational, career, or personal adjustment concerns by either stopping by our offices, located on the third floor of Hudson Health Center (use the side entrance next to Voigt Hall—please see our receptionist) or by calling 593-1616 between 8 a.m. to noon and 1 p.m. to 5 p.m., Monday through Friday.

Disability Services

Services to students, faculty, and staff with disabilities are provided by many different units on the Ohio University campus. The Office of Affirmative Action, located in Crewson House, has primary responsibility for identifying and coordinating the services provided by each of these units to meet the particular needs of each person with a disability.

The Office of Affirmative Action provides guidelines for required documentation of disability, contact with social service agencies, and an introduction to on-campus services for people with disabilities. These services include priority scheduling, faculty help with classroom and academic needs, learning and study services including Recording for the Blind (RFB) and textbook taping, library assistance, tutoring and study skills assistance through Project CAP, parking, and workplace and housing accommodations.

Although all students, regardless of disability, are subject to established academic requirements, Ohio University recognizes the need for accommodations to promote program accessibility. If you have a disability, you are encouraged to contact the Office of Affirmative Action to arrange for these accommodations.

Housing Office

You arrange for campus housing through the Housing Office, which is responsible for residence hall room assignments and married student apartment complex assignments. The office handles all room and board charges and oversees maintenance of the married student apartment complexes.

Housing Regulations. If you have fewer than 90 earned credit hours, you must reside in University-owned housing and participate in the associated mandatory board plan. (There are some exceptions; see list that follows.) At the end of each spring quarter, your hours will be counted. If you do not have 90 earned credit hours at the end of spring quarter, you will be required to live in University-owned housing the following year. However, if you are close to achieving the required hours at the end of spring quarter and are planning to take classes during the summer session, you may petition to have your hours counted at the end of summer session. If you request this extension and then fail to earn the certified 90 hours at the end of summer session, you will be required to return to University-owned housing. If you don't comply with this regulation, you may be denied registration, or your registration may be canceled.

Transfer and re-enrolling students should contact the Office of Admissions to determine their earned-hour status. Relocating students should contact the Registrar's Office.

If you meet any of the following conditions, you may request, in writing, that you be exempt from the 90 earned credit hour rule.

- 1** If you are enrolled for not more than eight quarter hour credits during the fall, winter, or spring quarters and for fewer than three hours during a summer session;
- 2** If you are a married student living with your spouse within commuting distance of the University;
- 3** If you live with parents or guardians whose permanent residence is within commuting distance of the University;

4 If you have 45 or more earned credit hours and are living in a recognized fraternity or sorority house;

5 If you are a veteran who has 18 or more months of active military service.

Special Students. All special students (students taking classes during the summer, Ohio Program of Intensive English students, etc.) must comply with the 90 earned credit hour regulation. If you are not sure of your status, contact the Housing Office.

Note: All students with 90 or more hours of credit earned may live off campus. The University is not responsible to either the landlord or the resident student for living conditions or problems arising in off-campus housing.

Insurance, Major Medical

A major medical insurance plan designed to supplement the care provided by the Student Health Service is mandatory if you are registered for more than six hours of credit unless you submit evidence of coverage by comparable private insurance.

The plan provides protection against major medical and surgical expenses regardless of where you are. In addition to the medical and surgical benefits payable under the terms of the group plan contract, an accidental death payment is part of the insurance policy.

If you are married, a major medical-surgical expense protection insurance plan for your dependents is available through the University comprehensive group medical insurance.

Intercollegiate Athletics

Ohio University is a Division I member of the NCAA and a charter member of the Mid-American Conference (MAC), which is composed of nine other midwestern universities including Akron, Ball State, Bowling Green, Central Michigan, Eastern Michigan, Kent State, Miami, Toledo, and Western Michigan.

The Department of Athletics adheres to the policies and procedures of the National Collegiate Athletic Association (NCAA) concerning organization, administration, and financing.

Ohio University fields a total of 17 intercollegiate sports including nine men's teams and eight women's teams. The University offers baseball, basketball, cross country, football, golf, swimming and diving, indoor track, outdoor track, and wrestling for men. Women's sports include basketball, cross country, field hockey, softball, swimming, indoor track, outdoor track, and volleyball.

The Reese Trophy is awarded annually to the institution compiling the best men's overall record in the MAC. The Jacoby Trophy was instituted for women in 1982-83.

Athletic facilities include the 13,000-seat Convocation Center, the site of Ohio University home basketball, volleyball, and wrestling contests. Constructed in 1968, the building houses athletic offices, training facilities, locker rooms, and weight and equipment rooms. The newly renovated Peden Stadium and Tower is the home of the football Bobcats, with a seating capacity of 20,000. The all-weather Goldsberry Track surrounds the field. Remodeled Trautwein Field is one of the finest baseball facilities in the conference. The aquatic center, completed in 1984, contains an Olympic-size pool, including sixteen 25-yard lanes, nine 50-meter lanes, two one-meter, and two three-meter diving boards. Softball and field hockey practice and playing fields are located along Shafer Street, and the golf team practices at the University course and the Athens Country Club.

If you are interested in participating in intercollegiate athletics, you should contact the head coach of the preferred sport during the summer or during the first week of the academic year.

International Students

Admission. If you are an international student, information on undergraduate admission may be obtained from the director of admissions, Chubb Hall. Information on graduate admission is available from the Office of Graduate Student Services, Wilson Hall.

Financial Aid. There is a very limited amount of financial aid available for undergraduate international students. In no case does this cover more than a portion of tuition or other expenses. Those of you entering from overseas are eligible to apply for awards based on academic promise; those of you already enrolled at Ohio University may apply for the same awards, and in addition, may request special aid in cases of demonstrated need. You may apply for these scholarships and grants-in-aid by contacting the Office of Student Financial Aid and Scholarships.

International House. A centrally located residence hall offers special programs for roughly equal numbers of international and U.S. students. The emphasis is on cultural sharing and mutual understanding. A large meeting room, lounges, and a dining hall are available. International students and U.S. students with interest in other countries are encouraged to live in this hall. Staff, both international and U.S., are selected because of their interest and training in international affairs.

Associations. More than twenty internationally oriented student organizations exist at Ohio University, representing national, regional, religious, and social interests. They join together for special programs throughout the year. Programming reaches a high point in spring during International Week and the International Street Fair, conducted in cooperation with the Athens Business Association and the International Student Union.

Athens Friends of International Students. AFIS runs a hospitality program, an International Wives' Club, and, on a modest scale, matches you with American families in Athens, Ohio, and the vicinity. Visits are short, and may be only for a dinner or an afternoon excursion, but sometimes long friendships develop from this brief opportunity to gain insights into American home life.

The International Wives' Club brings together the wives of foreign students on campus and interested wives of faculty and community people. It serves as a forum for ideas and information and offers a productive and easy way to participate in University life.

Ohio Program of Intensive English (OPIE). The OPIE administers English proficiency examinations to all new international students and provides intensive language instruction for those needing it. (See descriptions of courses and programs elsewhere in this catalog.)

The Office of International Student and Faculty Services.

The Office of International Student and Faculty Services offers you consultation about any concern you might have, including immigration, financial, and personal problems. All new students, as well as returning students starting a new degree program, must report to the advisor's office upon arrival. An orientation program will be conducted for a few days prior to the opening of each quarter in order to introduce new students to the campus.

The Office of International Student and Faculty Services also works with other departments and organizations on campus such as Residence Life, Student Life, International Studies, Phi Beta Delta, and the Fulbright Alumni Association to promote programs like Cross-Cultural Awareness Workshops, which create a supportive climate for international students.

International Women's Program.

The International Women's Program is a support group open to all women. The group meets once a week at the Mill Street Apartments and provides a way for participants to share their culture with other women. Participants plan a variety of programs and excursions. Fluency in English is not required, and child care is provided.

Libraries

The main library on the Athens campus is the Vernon Roger Alden Library. The seven-story, air-conditioned building has a collection of more than 1.6 million bound volumes, 11,000 periodical subscriptions, and more than 2 million research materials including microform units, maps, photographs, cassettes, videotapes, and disks. There are seating accommodations for 2,800 people. Alden Library is open seven days a week for a total of 102 hours.

Collections. Besides the main collection, which is arranged by the Library of Congress Classification System, the library houses separate subject and special collections: the Archives and Special Collections, Children's Collection, Government Documents, the Health Sciences Library, Instructional Media Service, Maps Collection, Microforms and Nonprints Collection, and Southeast Asia Collection. In separate buildings are the Music/Dance Library and a number of departmental collections in several scientific disciplines. Each of the regional campuses also has a well established library.

Instructional Media Service.

Instructional Media Service (IMS), located on the second floor of the library, provides audiovisual equipment and services to the entire University community. IMS has several thousand instructional films, videotapes, and other media available. Instructional development and graphic/photographic production services, which generate a variety of self-study and group instructional materials, are available for academic courses upon faculty request. Audiovisual equipment such as projectors and tape recorders may be rented by registered campus student organizations.

Services. To make the library's collections more accessible, ALICE, an on-line public access catalog and circulation system, was installed in 1983. Catalog terminals are located throughout the library for easy access to the library's holdings. Remote access is available to anyone having direct or dial-in access to the University computer network. General tours, instructional lecture tours, and a video orientation presentation are offered to classes and groups upon request. Subject bibliographers' services are available to give assistance with problems in specific academic disciplines.

Electronic information services assist you in identifying and obtaining resources. The library offers more than 60 CD-ROM products—many networked within the Alden Library. Library workstations also provide access to state-wide resources on OhioLINK, to national and international resources on the Internet, and to the vast OCLC union catalog. In addition, librarians can assist you with online

retrieval of information using several commercial data base services. Through OCLC and other networks linking libraries around the country and around the world, materials in far distant collections are now easily accessible. The library is part of the age of resource sharing to better serve the academic community.

Medical Services

Student Health Service, located in Hudson Health Center, provides you with outpatient clinic and complete ancillary services, including health education, pharmaceutical, X-ray, clinical laboratory, and physical therapy services.

The Student Health Service staff includes full-time physicians; a pharmacist; a coordinator of health education services; registered nurses; and registered laboratory, X-ray, and other allied personnel.

A continuous health record is maintained for you beginning with the medical history obtained upon your first visit to Hudson Health Center. A tuberculosis skin test administered by the Student Health Service is required of all new international students upon arrival on campus and of international students returning after an absence of two or more years.

Multicultural Programs

The Office of Multicultural Programs, located in Baker Center, serves to complement the academic programs of study by sponsoring co-curricular activities designed to promote your personal, social, and educational development. In addition to providing a calendar of events that includes concerts, lectures, films, and plays, the office also works with other University departments in promoting cultural events. The functions of the office are as follows:

Programming. The office plans and coordinates three quarterly program series—film, discussion, and coffeehouse entertainment. Each series is designed to meet different needs and seeks your involvement in planning and implementation.

Advising. The Office of Multicultural Programs has formal advising relationships with the African American Student Union (AASU), the Black Student Cultural Programming Board (BSCPB), and the Ohio University chapter of the National Pan-Hellenic Council (NPHC). There are presently two traditional black sororities and three fraternities that are governed by the National Pan-Hellenic Council. The office also maintains an informal advising relationship with Hispanics in Progress (HIP) and the Asian American Student Association (AASA). All of the aforementioned organizations plan many programs and activities that benefit the entire University community.

Ombudsman of the University

The ombudsman's primary responsibility is to assist you and other members of the University community in expediting settlement of complaints and grievances. Using broad investigatory powers and direct access to all University officials of instruction and administration, the ombudsman may intervene in the bureaucratic process on your behalf when that process unnecessarily or unfairly impinges upon you. (Complaints/grievances brought to the office are handled with complete confidence.)

You should first try to discuss your concerns with the person most closely associated with the situation. Should such discussion seem difficult or fail to bring acceptable results, the ombudsman may prove an invaluable aid. The ombudsman's office is in Crewson House, 115 S. Court St.

Parking

Since parking on the Ohio University campus is limited, freshmen are not allowed to park cars on campus. Students must register any vehicle that will be on campus with the Department of Campus Safety.

Permits for campus parking may be obtained any time in Scott Quad 135.

Resident parking and commuter parking are both available on a first-come first-served basis; a limited number of garage parking spaces are available at the beginning of fall quarter through the Housing Office, Chubb Hall 060. Fees are listed in the Schedule of Fees section of this catalog.

Although it is not necessary to register motorcycles, parking is limited to specifically designated areas.

Students can park without a permit, if their vehicle is registered, after 5 p.m. daily and on weekends in certain campus lots. A map identifying these lots is available from the department. Parking areas have been identified for guests. For information call the Department of Campus Safety, Parking Services Division, at 614-593-1917.

Recreational Sports

The Ohio University Division of Recreational Sports administers the following: intramural sports, club sports, informal sports, intramural aerobics, fitness center, recreation facility scheduling and reservations; and recreation equipment rental.

The Intramural Sports Program offers 33 activities for men and women that involve individual, dual, and team competition. Activities include football, basketball, baseball, broomball, volley-ball, innertube water polo, softball, tennis, racquetball, and soccer. A co-ed program for dual and team competition also is offered in a majority of the activities.

The Division of Recreational Sports administers all recognized club sports on campus. Currently, there are 16 recognized clubs. Any group of students, faculty, and staff interested in organizing practices and/or competition, or anyone interested in a particular club, should contact the Recreational Sports office in Grover Center. An informal recreational program also is available when time and facilities permit, and an aerobics program for students is offered in the evenings each quarter.

A fitness center with 44 pieces of equipment in Grover Center is open 12-15 hours daily, seven days per week.

Student, faculty, and staff groups can reserve rooms in Grover Center, intramural fields, South Green fields, McCracken Field, band practice area, Stimson Avenue Field, and an intramural baseball field by contacting the Recreational Sports office. You can also reserve recreation equipment (balls, bats, etc.).

For more information, contact the Division of Recreational Sports in Grover Center (first floor; offices face Richland Avenue) at 593-4660.

Residence Life

The Department of Residence Life supports the educational goals of the University in the residence halls. The staff promotes community living, facilitates the development of individuals and groups within the living environment, and provides support and information to residents.

The residential campus is divided into three geographical areas commonly referred to as greens. There is a residence life office on each green (East, South, and West) for your convenience. The central office is located in Chubb Hall 050.

Each green has full-time professional as well as para-professional live-in staff who have been carefully selected and trained to offer you the most informed and meaningful assistance possible. The staff-to-student ratio in upperclass halls is about 1:35, while in freshman halls it is 1:26. The department also coordinates a Student Security Aide Program to assist with student and building security.

Services offered by this department include providing a safe and healthful environment conducive to sound academic pursuit; creating opportunities for growth and development through educational, recreational, social, and cultural programming designed to meet the needs and interests of the students; involving faculty in the residence halls as faculty associates and resource people; meeting the needs of students through the use of special-interest housing (intensive study, honors, academic emphasis, academic interests); promoting student involvement and leadership by encouraging participation in hall government; emphasizing the concepts

of self-responsibility, respect, and consideration for others; interpreting University policies and procedures; serving the residents as an information source and as a referral agent to other University services; and providing confidential personal advising for such concerns as adjustment, academic performance, substance abuse, and interpersonal relationships.

Research indicates that much of the learning that occurs during the collegiate experience takes place outside the formal classroom setting. The living-learning atmosphere of the residence hall is one of the prime catalysts in this growth process. While each residence hall is unique in character and spirit, they all offer the opportunity to meet, interact with, and learn from a very diverse student population.

Speech and Hearing Services

The Speech and Hearing Clinic offers diagnostic and treatment services to University students, faculty, and staff. Charges for services are at lower rates than the charges to the general public. Clinical services are available to children and adults of the community and surrounding area for a nominal charge. All types of speech and/or hearing disorders in people of all age ranges are evaluated and treated. The audiological division is equipped and staffed to provide complete hearing diagnostic services, to determine the need for and recommend special kinds of hearing aids, and to provide therapy for all types of hearing loss.

A program for language and speech development operates in the on-campus clinic five days a week, and regional county clinics serve clients weekly. Undergraduate and graduate students prepare for clinical practice in public schools, special schools, private clinics, or for university teaching and research. People wishing counseling about the training program, information about the service program, or help with a speech or hearing problem should inquire at the clinic office in Lindley Hall between 8 a.m. and 5 p.m., Monday through Friday.

Student Activities

The Office of Student Activities, located in Baker Center, plans, coordinates, and supports co-curricular activities on the Ohio University campus. You are encouraged to become active in any of the many organizations or programs available. All are designed to help you complement your academic growth by becoming involved in campus life outside of the classroom.

Leadership Development. The Ohio University Leadership Development Program, coordinated through the Office of Student Activities, offers a comprehensive and integrated series of workshops, conferences, and seminars. If you choose to become involved, you can learn personal, interpersonal, and organizational skills and concepts that are designed to help you develop your potential. Specific programs include decision making, goal setting, time management, problem solving, and leadership styles.

Student Organizations. More than 300 student organizations are registered with the Office of Student Activities. Each offers a unique opportunity for involvement. Included are honoraries, special interest groups, professional associations, political groups, governing bodies, club sports, religious groups, and service organizations.

Greek Life. There are more than 30 nationally affiliated fraternities and sororities recognized on the Athens campus. These groups are governed by Women's Panhellenic Association, Interfraternity Council, and the Ohio University Chapter of the National Pan-Hellenic Council. The Office of Student Activities acts as University liaison.

Campus Activities Programming.

Many major campus events and programs are planned by the University Program Council (UPC), International Student Union (ISU), and Black Student Cultural Programming Board (BSCPb). These groups plan social, cultural, recreational, and entertainment programs for the campus. While providing the campus with quality activities and multicultural programs, they offer an opportunity for members to develop

leadership and career-related skills. UPC is composed of seven committees: cultural, concerts, lectures, entertainment, recreation, special events, and film and video. The BSCPb includes the following committees: hospitality, political, social, publicity, and entertainment. ISU consists of an executive board, general assembly, and programming committee.

Community Service. You can learn, grow as a person, and help others in need by performing community service in the Athens area. The Center for Community Service, located in Baker Center 033, has information and assistance to help you find the right community service opportunity for you. Available are opportunities to tutor, work with youth, counsel, raise funds, organize events, recycle materials, and clean up the environment. Some opportunities offer career-related experience and academic credit.

Honor Societies. These national organizations confer memberships in recognition of high scholastic attainment and the fulfillment of other constitutional requirements. Some of the societies recognize and encourage the development of a well rounded personality and leadership and service qualities, in addition to academic achievement.

Alpha Epsilon Rho, *Broadcasting*
Alpha Lambda Delta, *Scholarship*
Alpha Pi Mu, *Industrial Engineering*
Arnold Air Society, *Aerospace Studies*
Beta Alpha Psi, *Accounting*
Chi Sigma Iota, *Counseling*
Delta Phi Alpha, *German*
Delta Sigma Pi, *Business Administration*
Delta Sigma Rho-Tau Kappa Alpha, *Forensics*
Eta Kappa Nu, *Electrical Engineering*
Gamma Pi Delta, *Nontraditional Students*
Golden Key, *Scholarship*
Kappa Delta Pi, *Education*
Kappa Kappa Psi, *Band*
Mortar Board, *Scholarship, Activities*
Omicron Delta Epsilon, *Economics*
Omicron Delta Kappa, *Scholarship, Activities Leadership*
Order of Omega, *Greek Leadership*
Pershing Rifles, *Military Science*

Phi Alpha Honor Society, *Social Work*
 Phi Alpha Theta, *History*
 Phi Beta Kappa, *Scholarship*
 Phi Gamma Nu, *Business*
 Phi Kappa Phi, *Scholarship*
 Phi Mu Alpha, *Music*
 Phi Sigma Iota, *Romance Languages*
 Phi Upsilon Omicron, *Home Economics*
 Pi Gamma Mu, *Political Science, Social Sciences*
 Pi Mu Epsilon, *Mathematics*
 Psi Chi, *Psychology*
 Rho Lambda, *National Greek Honorary*
 Sigma Alpha Iota, *Music*
 Sigma Delta Pi, *Spanish*
 Sigma Gamma Epsilon, *Earth Sciences*
 Sigma Sigma Phi, *Osteopathic Medicine*
 Society of Professional Journalists
 Tau Beta Pi, *Engineering*
 Tau Beta Sigma, *Band*
 Women in Communications, Inc.,
Journalism

Student Senate

Student Senate is the elected, representative voice of the student body and is part of the network of campus governmental bodies that also includes the Administrative Senate, Faculty Senate, and Graduate Student Senate. Student Senate initiates programs and coordinates activities deemed beneficial to students. Student Senate is responsible for the appointment of undergraduate students to University committees, and for allocating more than \$135,000 a year to student organizations. You are encouraged to contact the Student Senate for help in resolving issues, as well as for information regarding programs and projects available to you.

University Center

The John Calhoun Baker University Center is a focal point of co-curricular life at Ohio University. A variety of facilities, programs, and services are provided to the University community.

The Recreation Room, located in the basement, has eight regulation bowling lanes, 15 pool tables, and a wide variety of video and pinball games.

The Front Room, a campus coffee-house, serves domestic, imported, and specialty gourmet coffees, as well as tea, soda, seltzers, and juices. Also available are Haagen-Daz ice cream, dessert croissants, and premium locally produced baked goods. Open seven days a week (until midnight Sunday through Thursday and 1 a.m. Friday and Saturday), it is a popular place to meet friends. Activities are planned for every night and include the Front Room Free Film Series (on Mondays and Tuesdays), dance nights, talent shows, open stage, poetry readings, lectures, Comedy Class Live, improvisational theater, and live performances by local and regional jazz, rock, country, and rhythm and blues artists.

The State Room Dining Room, located on the first floor, serves lunch daily. Also available are private dining rooms for luncheon meetings and a complete catering service.

The Information Center in the main lobby offers a computerized campus calendar listing University events, programs and academic information, check cashing, notary public services, an automatic teller machine, typewriter rental, free telephones for local calls, paper and pen sales, postage stamps, and up-to-date listings of students, faculty, staff, organizations, departments, and committees. Adjacent to the lobby are the 1954 Lounge with a large-screen television and the 1804 Lounge with a grand piano. Ride and housing boards and coin-operated lockers are also available.

Meeting and reception rooms are available in Baker Center for groups from 10 to 500. Available are the Ballroom, the Alumni Lounge, the Green Room, the Bunch of Grapes Room, and the 1804 Lounge, as well as eight meeting rooms of various sizes. Reservations can be made at the director's office, Room 204. Baker Center also houses the Office of Student Activities and the following student organizations:

Nontraditional Students	
Organization	314
<i>Athena</i> Yearbook	320
Black Students Cultural	
Programming Board	419
Interfraternity Council	312
International Student Union	425
National Pan-Hellenic Council	313
<i>The Post</i>	Ground floor
Student Activities Commission	311
Student Senate	309
Students Defending Students	413
University Program Council (UPC)	406
Women's Panhellenic Association	312

Colleges and Curricula

Academic Organization

Ohio University offers curricula in some 250 undergraduate majors through nine colleges: Arts and Sciences, Business Administration, Communication, Education, Engineering and Technology, Fine Arts, Health and Human Services, Honors Tutorial, and University. Programs are also offered through the Center for International Studies, the Office of Lifelong Learning, and the College of Osteopathic Medicine. The Office of Graduate Student Services coordinates graduate study at Ohio University. The following is a list of the programs of study offered, broken down by college or area:

College of Arts and Sciences

Curricula leading to the Bachelor of Arts, Bachelor of Science degrees.
Preprofessional curricula; preparation for teaching at the secondary level.

- Departments :**
African American Studies
Biological Sciences
Chemistry
Classical Languages
Greek
Latin
Computer Sciences
Economics
English Language and Literature
Environmental Studies
Geography
Geological Sciences
History
International Studies
Linguistics
Arabic
Japanese
Chinese
Swahili
Indonesian/Malaysian
Mathematics
Modern Languages
French
Russian
German
Spanish
Italian

- Ohio Program of Intensive English
Philosophy
Physics and Astronomy
Plant Biology
Political Science
Psychology
Social Studies
Social Work
Sociology and Anthropology
Women's Studies

College of Business Administration

Curricula leading to the Bachelor of Business Administration degree.

- Departments/Schools :**
Accountancy
Finance
Management Information Systems
Management Systems
Marketing

College of Communication

Curricula leading to the Bachelor of Science in Communication, Bachelor of Science in Journalism, and Bachelor of Science in Visual Communication degrees.

Schools:

Communication Systems Management
Interpersonal Communication
Journalism
Telecommunications
Visual Communication

College of Education

Teacher-training curricula leading to the Bachelor of Science in Education degree; supervision of student teaching and other field experiences in education.

Schools:

Applied Behavioral Sciences and
Educational Leadership
Curriculum and Instruction

College of Engineering and Technology

Curricula leading to the Bachelor of Science in Airway Science, Chemical Engineering, Civil Engineering, Electrical Engineering, Industrial and Systems Engineering, Industrial Technology, and Mechanical Engineering.

Departments:

Aviation
Chemical Engineering
Civil Engineering
Electrical and Computer Engineering
Industrial and Systems Engineering
Industrial Technology
Mechanical Engineering

College of Fine Arts

Curricula leading to the Bachelor of Fine Arts and Bachelor of Music degrees.

Schools:

Art
Art Education
Art History
Ceramics
Graphic Design
Painting
Photography
Printmaking
Sculpture
Studio Arts

Dance

Music

Music Education: Choral Emphasis
Music Education: Instrumental Emphasis
Music History and Literature
Music Theory and Composition
Music Therapy
Music Therapy/Education
Orchestral Instruments
Organ Performance
Piano Pedagogy
Piano Performance
Voice Performance

Theater

Acting
Production Design and Technology
Theater Arts and Drama

College of Health and Human Services

Curricula leading to the Bachelor of Science in Environmental Health, Health, Hearing and Speech Sciences, Human and Consumer Sciences, Industrial Hygiene, Nursing, Physical Education, Physical Therapy, Recreation Studies, and Sport Sciences.

Schools:

Health Sciences

Community Health Services
Environmental Health Science
Health Education
Health Services Administration
Industrial Hygiene
Long-Term Health Care Administration

Hearing and Speech Sciences

Human and Consumer Sciences

Dietetics
Early Childhood Education
Early Childhood/Primary Education
Family Studies
Fashion and Retail Merchandising
Food Service Management
Interior Design
Nutrition with Science
(Biological Sciences)

Nursing

Baccalaureate Nursing (B.S.N.
completion program)
School Nurse Certificate

Physical Therapy

Recreation and Sport Sciences

Athletic Training

Athletic Training/Exercise Physiology
Athletic Training/Health Education

Physical Education

Recreation Studies
Adventure Recreation
Outdoor Education and Camping
Recreation Management
Special Interests
Therapeutic Recreation

Sport Sciences

Aquatic Management
Coaching
Exercise Physiology
Sport Industry
Sport for Special Populations
Youth Sports

Honors Tutorial College

A degree college with 24 specialized majors, many of which can be completed in three years. Selected undergraduates take tutorials in their majors, courses as required by academic departments, and electives as desired. The student admitted to a tutorial program is exempt from General Education Requirements, except English composition, but depending upon his or her major, may be required to undertake an advanced creative or thesis project. A high percentage of the students in this college enter graduate or professional school. Ohio University applicants may request consideration for admission to the Honors Tutorial College and must indicate a major at the time of application.

University College

College for first-year exploratory students. Two-year programs leading to the Associate in Arts, Associate in Science, Associate in Applied Science, Associate in Applied Business, and Associate in Individualized Studies degrees. Four-year programs leading to the Bachelor of Specialized Studies and Bachelor of Criminal Justice degrees. Two- and four-year Reserve Officers Training Corps programs leading to commissions in the U.S. Air Force and the U.S. Army.

Office of Graduate Student Services

Programs leading to the Master of Arts, Master of Business Administration, Master of Education, Master of Fine Arts, Master of Health Administration, Master of Public Administration, Master of Science, Master of Sports Administration, and Doctor of Philosophy degrees. (See Ohio University *Graduate Catalog* for specific programs and majors.)

Center for International Studies

Jointly administers a Bachelor of Arts in International Studies with the College of Arts and Sciences. For nonmajors, the center offers a certificate of African, Asian, European, or Latin American studies.

African Studies
Asian Studies
European Studies
Latin American Studies

Office of Lifelong Learning

Provides educational opportunities beyond the regular channels of the University by using the resources of the University in nontraditional ways.

Adult Learning Services
Continuing Education, Conferences, and Workshops
Independent Study (see separate catalog)

College of Osteopathic Medicine

Offers a four-year professional program leading to the degree of Doctor of Osteopathy (see separate catalog).

Regional Campuses

Chillicothe
Eastern (St. Clairsville)
Lancaster
Southern (Ironton)
Zanesville

Major Code List for Incoming Students

The following is a listing of undergraduate major codes for incoming students, arranged by the college in which each major is offered. Please note that some programs and majors are offered through more than one college. For specific information on a particular program, see the appropriate college and/or course section of this catalog.

College of Arts and Sciences

Some of the majors in this college have two major codes. In general, with these majors you have the option of choosing *either* a degree program that is more hard sciences oriented (BS) or one that is more liberal arts/humanities oriented (BA). Specific details on curricular differences can be found under the College of Arts and Sciences section and under the specific program listings. You may want to consult with an admissions officer or a college representative about which option is more suitable for you.

BA4903	African American Studies
BA4252	Anthropology
	Biological Sciences
BS2121	Biological Sciences
BS2123	Clinical Laboratory Science
BS2509	Environmental Biology
BS2514	Marine Biology
BS0411	Microbiology
BS2510	Nutrition
BS2501	Pre-dentistry
BS2516	Pre-exercise

	Physiology
BS2502	Premedicine
BS2505	Pre-optometry
BS2506	Prepharmacy
BS2507	Prephysical Therapy
BS2508	Preveterinary Medicine
BS2515	Wildlife Biology
BS3311, BA3311	Chemistry
BS3316	Biochemistry
BS3315, BA3315	Environmental Chemistry
BS3310	Forensic Chemistry
BS3312, BA3312	Pre-dentistry
BS3314, BA3314	Premedicine
BS3313, BA3313	Prepharmacy
	Classical Languages
BA5214	Classical Civilization
BA5213	Classics/Greek and Latin
BA5212	Greek
BA5211	Latin
BS0701, BA0701	Computer Science
BA4221	Economics
BA4223	Preforeign Service
BA4222	Prelaw
BA5231	English
BA5232	Creative Writing
BA5234	Prelaw
BA5233	Pretheology

	Environmental and Plant Biology
BA2117	Agri-business
BS2114	Applied Plant Sciences
BS2118	Cell Biology and Biotechnology
BS2113	Environmental Biology
BS2115	Field Biology
BS2111, BA2111	Plant Biology
BS2112	Preforestry
BS2116	Prep. for Advanced Training
	Environmental Studies
	(see Biological Sciences, Chemistry, Environmental and Plant Biology, Geography, and Geological Sciences)
BS4231, BA4231	Geography
BS4236, BA4236	Cartography
BS4232	Environmental
BS4235	Geographic Information Systems Analyst
BS4233	Premeteorology
BS4234, BA4234	Urban and Regional Planning

BS3321	Geological Sciences
BS3323	Environmental
BS3322	Water Resources
BA4211	History
BA4212	Preforeign Service
BA4214	Prelaw
BA4213	Pretheology
	International Studies
BA4405	Africa
BA4406	Asia
BA4407	Europe
BA4408	Latin America
BA5290	Linguistics
BS3101, BA3101	Mathematics
BS3103	Applied Mathematics
BS3104, BA3104	Premeteorology
BS3105, BA3105	Prep. for Actuarial Sciences
BS3102, BA3102	Prep. for Advanced Training
	Modern Languages
BA5221	French
BA5222	German
BA5225	Spanish
BA5241	Philosophy
BA5244	Prelaw
BA5242	Pretheology
BS3331, BA3331	Physics
BS3332	Applied Physics
BS3335	Pre-astronomy
BS3336	Premeteorology
BS3334	Prep. for Advanced Training
BA4201	Political Science
BA4202	Preforeign Service
BA4203	Prelaw
BA4200	Public Administration
BA4101	Psychology
BA4105	Prephysical Therapy
ND6603	Social Work
BA4251	Sociology
BA4253	Criminology
BA4254	Prelaw
ND0410	Undecided

College of Business Administration

BB6121	Accounting
BB6124	Business Economics
BB6120	Business Prelaw
BB6125	Finance
BB6122	General Business
BB6130	Human Resource Management
BB6132	International Business
BB6126	Management
BB6135	Management Information Systems
BB6127	Marketing
BB6138	Operations
BB6133	Small Business Entrepreneurship
ND0610	Undecided

College of Communication

BC5329	Communication Systems Management
	Interpersonal Communication
BC5339	Communication in Human Services
BC5340	Communication Theory
BC5341	Legal Communication
BC5342	Organizational Communication
BC5343	Political Communication
	Journalism
BJ6932	Advertising Management
BJ6936	Broadcast News
BJ6933	Magazine Journalism
BJ6934	News Writing and Editing
BJ6935	Public Relations

BC5310	Telecommunications Premajor Visual Communication
BS6924	Informational Graphics
BS6921	Picture Editing/Page Design
BS6922	Photo Communication
BS6925	Photo Illustration
BS6923	Time-based Multi-Media

College of Education

BS6201	Art Education
BS6202	Bookkeeping - Basic Business
BS6200	Business Education - Comprehensive¹
BS6204	Communication - English Emphasis
BS6287	Communication - Speech Emphasis
BS6500	Educational Media Certification
BS6212	Elementary Education
BS6203	English
BS6288	General Speech - Interpersonal Communication Emphasis
BS6294	General Speech - Theater Emphasis
BS6737	Health Education²
BS6231	Latin
BS6255	Mathematics
BS6502	Media - Noncertification Middle School Education
BS6850	MS/Social Studies/ Language Arts
BS6851	MS/Language Arts/ Social Studies
BS6852	MS/Math/Science
BS6853	MS/Science/Math

Modern Languages

- BS6232 French
 BS6233 German
 BS6234 Russian
 BS6235 Spanish

Music Education

- BS6241 Instrumental
 Emphasis
 BS6242 Vocal Emphasis

Physical Education

- BS8208 Elementary and
 Secondary²

Science

- BS6256 Biological Sciences
 BS6257 Chemistry
 BS6855 Comprehensive
 BS6258 Earth Science
 BS6259 Physics

BS6214 Social Studies**Comprehensive
Special Education**

- BS6264 Developmentally
 Handicapped/Early
 Childhood Special
 Education
 BS6219 Developmentally
 Handicapped/Severe
 Behavior
 Handicapped
 BS6213 Developmentally
 Handicapped/
 Specific Learning
 Disabilities

ND0810 Undecided

¹Not all required courses are offered on the Athens campus. Applicants should consult the *University Undergraduate Catalog* for details.

²These majors are offered in both the College of Education and the College of Health and Human Services. Students interested in these majors initially should apply to the College of Health and Human Services. Students pursuing these majors will receive teacher certification regardless of the college in which they enroll.

**College of Engineering
and Technology**

- BS7258 **Airway Science**
 BS7251 **Chemical
Engineering**
 BS7252 **Civil Engineering**
 (technical electives
 in environmental
 engineering,
 geotechnical
 engineering,
 and structural
 mechanics and
 design)
 BS7253 **Electrical
Engineering**
 (technical electives
 in avionics, circuit
 design, communica-
 tion, computers
 and automata,
 control systems,
 electromagnetics,
 electronics and
 instrumentation,
 energy sources and
 systems, and power
 transmission and
 distribution)
 BS7255 **Industrial and
Systems
Engineering**
 (technical electives
 in applied opera-
 tions research,
 human factors
 engineering, and
 manufacturing
 engineering)
 BS7256 **Industrial
Technology**
 (technical electives
 in business
 management,
 manufacturing,
 teaching, and
 technical areas)
 BS7257 **Mechanical
Engineering**
 (technical electives
 in energy and
 machine design)
 ND0910 **Undecided**

College of Fine Arts

- BF5125 **Art Premajor**
 (majors include art
 education, art
 history, ceramics,
 graphic design,
 painting,
 photography,
 printmaking,
 sculpture, and
 studio arts)
 BF5151 **Dance
Music**
 BM5105 Music Composition
 BM5106 Music Education -
 Choral
 BM5107 Music Education -
 Instrumental
 BM5119 Music Education -
 Music Therapy
 BM5114 Music History and
 Literature
 BM5116 Music Theory
 BM5115 Music Therapy
 BM5103 Orchestral
 Instruments
 BM5102 Organ Performance
 BM5104 Piano Pedagogy
 BM5100 Piano Performance
 BM5101 Voice Performance
Theater
 BF5161 Acting
 BF 5162 Production Design
 and Technology
 BF5163 Theater Arts and
 Drama
 ND1010 **Undecided**

College of Health and Human Services

	Health Sciences
BS8105	Community Health Services
BS6260	Environmental Health Sciences
BS6837	Health Education ¹
BS8119	Health Services Administration
BS3309	Industrial Hygiene
BS6836	Long-Term Health Care Administration
BS5305	Hearing and Speech Sciences
	Human and Consumer Sciences
	(formerly Home Economics)
	Family Studies and Community Services
BS6350	Early Childhood Education ¹
BS5350	Early Childhood/Primary Education
BS6351	Family Studies
BS6380	Fashion and Retail Merchandising
	Food and Nutrition
BS6360	Dietetics
BS6361	Food Service Management
BS6363	Nutrition with Science (Biological Sciences)
BS6383	Interior Design
	Nursing
ND1205	Baccalaureate Nursing ²
ND8116	Physical Therapy³
	Recreation and Sport Sciences
	Athletic Training¹
ND8117	Athletic Training/Exercise Physiology

ND8127	Athletic Training/Health Education
BS8106	Physical Education¹
	Recreation Studies
BS8113	Adventure Recreation
BS8108	Outdoor Education
BS8109	Recreational Management
BS8110	Recreation - Special Interests
BS8104	Therapeutic Recreation
	Sport Sciences
BS8120	Aquatic Management
BS8121	Coaching
BS8122	Exercise Physiology
BS8124	Sport for Special Populations
BS8123	Sport Industry
BS8125	Youth Sports
BS8114	General/Undecided
ND0210	Undecided

¹These majors are offered in both the College of Health and Human Services and the College of Education. Students interested in these majors should apply initially to the College of Health and Human Services. Students pursuing these majors receive teacher certification regardless of the college in which they enroll.

²Not open to freshmen—available only to registered nurses.

³Not open to freshmen—selective admission program. Enter through a preparatory program such as Prephysical Therapy-Biology, or Prephysical Therapy-Psychology in the College of Arts and Sciences, or Sport Sciences-Exercise Physiology in the College of Health and Human Services.

Honors Tutorial College

Some of the majors listed below have two major codes, of which you will select one. In general, the second option (BA) provides a curriculum that is more liberal arts oriented. You may want to consult with an admissions officer or a college representative regarding which option is more suitable for you.

BS1902	Biological Sciences
BB1926	Business Administration
BS1904	Chemistry
BF1906	Dance
BS1910, BA1910	Economics
BS1925	Engineering Physics
BA1916	English
BS1901, BA1901	Environmental and Plant Biology
BF1924	Film
BA1914	French
BS1911, BA1911	Geography
BS1919	Hearing and Speech Sciences
BA1909	History
BC1918, BA1918	Interpersonal Communication
BJ1923	Journalism
BS1903	Mathematics
BA1917	Philosophy
BS1905	Physics
BA1908	Political Science
BA1907	Psychology
BA1912	Sociology
BA1915	Spanish
BC1920	Telecommunications
BF1913, BA1913	Theater

Regional Campuses

	Associate in Arts¹
AA1101	Arts and Humanities Emphasis
AA1110	Social Sciences Emphasis
AS1104	Associate in Science¹
ND5508	Associate in Individualized Studies²

Associate Degrees by Campus:**Chillicothe Campus**

AA5006	Business Manage- ment Technology
AA5004	Hazardous Materials Technology
AA5201	Human Services Technology
AA5505	Law Enforcement Technology
ND2341	Nursing, RN
AA5005	Office Administra- tion Technology
AA5506	Security/Safety Technology

Lancaster Campus

AA5002	Accounting Technology
AA5006	Business Manage- ment Technology Computer Science Technology
AA5010	Applied Business
AA5009	Applied Science
AA5318	Electronics Technology Industrial Technology
AA5320	Design Emphasis
AA5319	Manufacturing Emphasis
AA5015	Office Manage- ment Technology

Zanesville Campus

ND2341	Nursing, RN
AA5013	Radio-Television Performance/ Production

¹Available on all campuses²Available at Athens, Chillicothe, Lancaster, and Zanesville campuses. Applicants must have 30 credits earned to apply and obtain approval for acceptance.³Requires an associate's degree in an area related to criminal justice for admission. Not open to freshmen.⁴Applicants to this degree must obtain approval for acceptance. Not open to freshmen.**University College**

	Associate in Arts¹
AA1101	Arts and Humanities Emphasis
AA1110	Social Science Emphasis
AA1106	Associate in Arts- Child Develop- ment
AS1104	Associate in Science¹
AA7250	Associate in Applied Science- Aviation Technology
ND5508	Associate in Individualized Studies²

Baccalaureate Degrees

ND2209	Bachelor of Criminal Justice³
ND1112	Bachelor of Specialized Studies⁴
ND1201	Exploratory

College of Arts and Sciences

Harold Molineu,
Acting Dean

Joyce Z. Kohan,
Assistant Dean

Kathleen S. Schumacher,
Assistant Dean

Martin Terrell,
Assistant Dean

For nearly 100 years after its founding, Ohio University's reputation rested firmly on a liberal arts curriculum. Since then, many new colleges and divisions have been added. As Ohio University prepares to enter into its third century, the College of Arts and Sciences proudly holds to what has been the central purpose of the college since 1804: to provide opportunities for the student to secure a sound liberal education. Reflecting a changing society and today's career directions, the college offers an expanded and modern curriculum while continuing to be guided by the principles of a liberal tradition.

The objectives of a liberal education are achieved through courses that make up the curricula of the college—courses that historically have been regarded as the means whereby human beings come to understand themselves and the world in which they live. A student in the College of Arts and Sciences pursuing a Bachelor of Arts (A.B.) or a Bachelor of Science (B.S.) degree will obtain specialized knowledge through a major field of study while acquiring a fundamental education in foreign languages and other humanities, the social sciences, and natural sciences. The student who requires a more structured undergraduate program to prepare for a specific educational or career objective may choose from among the special curricula.

With the University's General Education Requirements as a foundation, college requirements are designed to allow generous opportunity for the student to elect from hundreds of courses in the humanities and the social and natural sciences. Many programs allow up to a year's worth of elective study outside the major.

The College of Arts and Sciences has the distinction of being the largest and oldest college at Ohio University. Comprising 20 departments, the college provides 26 regular major programs; 22 minors; 53 special programs in specific, career-related areas; and 5 majors offered in cooperation with

other colleges. A student may select a formal minor from those offered by most departments in the College of Arts and Sciences or from another college—except where extra-departmental courses essential to fulfill the major either nearly or completely duplicate the courses required for the minor.

Certificates may be earned in women's studies, political communication, African, Asian, European, and Latin American studies, and, with the College of Health and Human Services, in rural gerontology. These certificates can be a part of any program offered by the University.

Many exciting opportunities offered by Ohio University for Study Abroad are coordinated by the College of Arts and Sciences. These include one-quarter Intensive French, German, and Spanish Abroad, and Japanese Culture and Language Abroad, as well as year-long Student Exchange Programs in Denmark, Germany, and Great Britain. A three-week London Summer Study Program in English history and drama is also available.

Specific college and departmental requirements for the A.B. and B.S. degrees are described on the following pages.

Departments

The College of Arts and Sciences comprises the following 20 academic departments:

African American Studies
 Biological Sciences
 Chemistry
 Classical Languages
 Computer Science
 Economics
 English Language and Literature
 Environmental and Plant Biology
 Geography
 Geological Sciences
 History
 Linguistics
 Mathematics
 Modern Languages
 Philosophy
 Physics and Astronomy
 Political Science
 Psychology
 Social Work
 Sociology and Anthropology

Master's and doctoral degree programs are offered by the departments of Biological Sciences, Chemistry, English Language and Literature, Environmental and Plant Biology, History, Mathematics, Physics and Astronomy, and Psychology. Master's degree programs are offered by Economics, Geography, Geological Sciences, Linguistics, Modern Languages, Philosophy, Political Science, and Sociology and Anthropology.

Information about the master's and doctoral programs can be found in the *Ohio University Graduate Catalog*.

Degrees, Majors, and Minors

The college offers two four-year degrees: the Bachelor of Arts (A.B.) and the Bachelor of Science (B.S.).

A major for the A.B. degree may be completed in the following areas:

Anthropology
 African American Studies
 Chemistry
 Classical Languages
 Classical Civilization
 Greek and Latin
 Greek
 Latin
 Computer Science
 Economics
 English Language and Literature
 English
 Creative Writing
 Environmental and Plant Biology
 Geography
 Geological Sciences
 History
 International Studies
 Africa
 Asia
 Europe
 Latin America
 Linguistics
 Mathematics
 Modern Languages
 French
 German
 Spanish
 Philosophy
 Physics and Astronomy
 Physics
 Political Science
 Public Administration
 Psychology
 Social Work
 Sociology

The college also includes the following six programs:

The Master of Public Administration Program
The Master of Environmental Studies Program
The Master of Social Studies Program
The Ohio Program of Intensive English (OPIE)
The Ph.D. in Molecular and Cellular Biology Program
The Women's Studies Program

See the Courses of Instruction section in the back of this catalog for the major requirements.

Arts and Sciences students may complete majors in the following schools that are not in the College of Arts and Sciences: Art, Interpersonal Communication, Journalism, Music, and Theater. Entry into these programs is by special arrangement and requires the permission of the director of the appropriate school. Existing selective admission policies apply regardless of the college of enrollment. Information concerning the requirements for these majors can be obtained from the dean's office.

A major for the B.S. degree may be completed in the following areas (note that the B.S. degree may not be earned for a major in the humanities or social sciences):

Biological Sciences
Chemistry
Computer Science
Environmental and Plant Biology
Forensic Chemistry
Geography
Geological Sciences
Mathematics
Microbiology
Physics

See the Courses of Instruction section in the back of this catalog for the major requirements.

The college offers certificate programs in gerontology (in cooperation with the College of Health and Human Services), international studies, political communication, and women's studies. The awarding of the certificate is recorded on the student's permanent record. See the Arts and Sciences Special Curricula section for information and/or requirements for these programs.

The college offers 22 formal minors. See the Courses of Instruction section for minor program requirements.

Minors

African American Studies
Anthropology
Biological Sciences
Chemistry
Classical Languages
Computer Science
Economics
English
Environmental and Plant Biology
Geography
Geological Sciences
History
Linguistics
Mathematics
Microbiology
Modern Languages
Philosophy
Physics
Political Science
Psychology
Social Service
Sociology

Note: the certificate programs and formal minors listed above are open to students in any program, regardless of college, except as restricted by that program or college. Awarding of the certificate or minor to non-Arts and Sciences students is by the approval of the student's own college dean.

Special Curricula

The college offers special curricula in the following (see the Arts and Sciences Special Curricula section for information about these programs):

Preparation for Actuarial Sciences
Preparation for Advanced Training in Astronomy
Preparation for Advanced Training in Mathematics
Preparation for Advanced Training in Physics
Preparation for Advanced Training in Plant Biology
Preparation for Agri-Business
Preparation in Applied Mathematics
Preparation in Applied Physics
Preparation in Applied Plant Sciences
Preparation for Biochemistry
Preparation for Biological Sciences-Nutrition
Preparation in Cartography
Preparation for Cell Biology and Biotechnology
Preparation for Clinical Laboratory Science
Preparation in Creative Writing
Preparation for Criminology
Preparation for Dentistry
Preparation for the Study of the Environment
Preparation for Exercise Physiology
Preparation for Field Biology
Preparation for Forestry
Preparation for Geographic Information Systems Analyst
Gerontology Certificate Program
Preparation for Government Foreign Service
International Studies
Preparation for Law
Preparation for Marine Biology
Preparation for Medicine
Preparation for Meteorology
Preparation for Optometry
Preparation for Pharmacy
Preparation for Physical Therapy
Political Communication Certificate Program

Preparation for Public Administration
Preparation for Theology and Religion
Preparation for Urban and Regional Planning
Preparation for Veterinary Medicine
Preparation for Water Resources
Preparation for Wildlife Biology
Women's Studies Certificate Program

Degree Requirements

Bachelor of Arts (A.B.) and Bachelor of Science (B.S.)

Regardless of the major being completed, all Arts and Sciences degree students must meet basically consistent requirements for any particular program.

General requirements for the A.B. or B.S. degree are a minimum of 192 quarter hours to include 90 hours of Arts and Sciences coursework above the 199 level; two years of foreign language; at least 18 hours each of humanities, social sciences, and natural sciences; General Education Requirements*—Tiers I, II, III; and all requirements stipulated by the respective department for the chosen major. Minors are optional.

The A.B. and B.S. degree programs differ in the language requirements (see foreign language section that follows) and in specific major course requirements, as established by the department. Note that a B.S. or an A.B. designation is not subject to student preference but rather is determined by the program.

All departments in the College of Arts and Sciences have an undergraduate advising coordinator, who, with the help of other faculty in the department, ensures that every student is assigned an advisor for academic counseling. (It is not the advisor's responsibility, however, to dictate the quarter's schedule or to guarantee that program requirements are being met—this is the student's responsibility.)

The Office of Student Affairs assists Arts and Sciences students in administrative matters related to academics, maintains records of academic progress, and approves candidates for graduation. The Office of Student Affairs is located on the ground floor of Wilson Hall, College of Arts and Sciences.

The following list outlines the Arts and Sciences degree information presented in the sections that follow:

Major Requirements

Minor Requirements

General Education Requirement

Foreign Language Requirement

Humanities Area Requirement

Social Sciences Area Requirement

Natural Sciences Area Requirement

Level of Study Requirement

Total Hours Required and Credit

Allowed

Single Application of Credit

Averages Required

General Information

Advising

Double Major

Second Bachelor's Degree

Pass/Fail Option in Arts and Sciences

Teacher Certification

Transfer and Transient Study

Time and Resident Course Loads

Degree *in absentia*

Study Abroad

Major Requirements

The specific requirements for each major in the College of Arts and Sciences are indicated respectively in the back section of this catalog under Courses of Instruction. The student wishing to complete a standard program should refer to these requirements, which remain in effect for a five-year period from the student's entry date.

*Note: in many cases, the same courses can be used to fulfill both Tier II requirements and Arts and Sciences distribution requirements.

Requirements for the preprofessional programs and other special degree programs are outlined in the Special Curricula section, which follows. The student who selects a special curricula program must, without exception, complete the entire special curriculum, as well as fulfilling University General Education Requirements and all College of Arts and Sciences requirements.

Students in the College of Arts and Sciences are not required to declare a major and may enroll in the college as an "undecided" major; however, once 90 hours have been earned, a major must be declared. Students who have earned more than 45 hours are ineligible to transfer into the college as an "undecided" major.

Requirements for the non-Arts and Sciences major programs are determined by a designated advisor in each program.

College policy requires that any major program consist of a core minimum of 36 quarter hours in one subject area, including nine quarter hours which must be taken at the junior-senior level. It should be noted that most departments require more than 36 hours for the major and that there may be specific departmental requirements to meet. **The student is obligated to fulfill the major requirements specified by the department.**

Methods courses are not included in hours that apply to the major. The A.B. degree candidate may count a maximum of 72 hours in one subject toward the degree; the B.S. candidate may count a maximum of 80 hours. Courses in the major that are numbered above 199 are applied to the 90-hours-above-200 requirement.

Formal majors in the Arts and Sciences disciplines may be completed only by students enrolled in the College of Arts and Sciences, except for teacher certification candidates, who may enroll either in the College of Arts and Sciences or the College of Education, and economics majors, who may enroll in the College of Arts and Sciences or the College of Business Administration.

Minor Requirements

For the Arts and Sciences student, regardless of major, interested in completing a formal minor, the college offers 22 minors from the regular major areas. (See Degrees, Majors, and Minors, preceding.) Students are not required to complete a minor.

College policy requires that a minor consist of a minimum of 24 hours and a maximum of 35 required hours, including at least two courses at the junior-senior level. In the case of foreign languages, the minimum requirement is 24 hours beyond the 213 level. English courses fulfilling Tier I composition requirements do not count toward the minor. Within these limits, the distribution of courses is determined by the department.

Consult the Courses of Instruction section for Arts and Sciences minor requirements.

General Education Requirement

The University General Education Requirements (Tiers I, II, and III) are similar to, but lesser in scale than, the Arts and Sciences requirements. The well advised student can select courses which, while fulfilling University General Education Requirements, can partially satisfy Arts and Sciences distribution requirements in foreign languages, humanities, social sciences, natural sciences, and courses above the 199 level. The courses listed in items 4, 5, 6, 7, and 8 below indicate **specifically** those courses acceptable for Arts and Sciences credit. Of these courses, a large number also fulfill the Tier II General Education Requirements.

All courses taken to complete General Education Requirements apply as electives toward the required minimum of 192 hours needed to graduate from Ohio University.

Courses designated for Tier I quantitative skills and freshman composition (including any skills courses need as prerequisites) apply only to hours needed for graduation and do **not** apply to the Arts and Sciences distribution requirements.

Courses that fulfill the Tier I advanced composition requirement at the junior level will apply to distribution areas **only** when the course is an Arts and Sciences offering.

Courses designated as Tier III offerings do not fulfill any Arts and Sciences requirements **except** when taught by faculty from the College of Arts and Sciences. Under this condition only, the course will count toward hours above 199.

Transfer students who receive transfer credit for courses comparable to the composition and quantitative courses of Tier I are considered to have met the Tier I requirement. Transfer students without comparable transfer credit in composition and/or quantitative skills must complete the requirement.

Foreign Language Requirement

The College of Arts and Sciences requires that all candidates for the A.B. or B.S. degree successfully complete two years of foreign language at the college level or the equivalent. However, the type of degree (A.B. or B.S.) determines how the two-year requirement is completed. These specific requirements (see details below) are determined by the degree program and are not the student's choice.

Courses taught at Ohio University that will fulfill the language requirement are African and Asian languages (Arabic, Chinese, Indonesian/Malaysian, Japanese, and Swahili), classical languages (Greek and Latin), Germanic language (German), Romance languages (French, Italian, and Spanish), and Slavic language (Russian).

The first year of language is represented by the course numbers 111, 112, and 113. The second, or intermediate, year is represented by course numbers 211, 212, and 213.

Language Placement Table

The language placement table below represents the broadest interpretation of the language requirement and thus applies more specifically to the A.B. degree. Students whose majors are designated B.S. should use the table as a guide, but may qualify for the options described in the "Candidates for the B.S. Degree" section that follows the table. (A change in degree program from B.S. to A.B. will cause the language requirement to change accordingly.)

The language placement table represents the correlation between **two** years of high school language being equal to **one** year of college language. The study of a foreign language at Ohio University must begin according to the recommendations listed in the table below. Enrolling at a level higher than indicated by the table is **not** permitted. Bypassing sequential courses is permitted only in accordance with the Language Placement Table.

For the student who has completed two or more years of high school language, the recommendation in the table assumes **thorough preparation within the last year**. If this is not the case, the student is strongly advised to enroll first in a lower level course as preparation to enter the intermediate level.*

Years of language in high school	Begin college language at
0-1 year	Course 111
2-3 years	Course 211
4-5 years	Course 213 or 341 (Latin 351)

*Note: the student who finds it necessary to repeat high school level work (111-113) in order to prepare for the intermediate level will not lose credits. Although these credits will not fulfill the language requirement, they will be applied to the 192-hour graduation requirement. Once the language requirement is completed, any foreign language course not duplicating coursework for the requirement may be applied to the humanities distribution area.

Candidates for the A.B. Degree

The foreign language requirement for the A.B. degree candidate is the successful completion of a two-year sequence of study of the SAME language through level 213.

For the A.B. student with:

Zero to one year of high school language must complete **two** years of **one** foreign language at the college level.

Two or three years of one language in high school must complete the intermediate level (i.e., second year) 211-213, of the same language **or**, if the student prefers, may complete **two** years (111-213) of a language different from the one studied in high school.

Four or more years of one foreign language in high school may complete course number 213 or 341 or any other higher level course in the **same** language.

Four years of Latin in high school may elect to complete LAT 351 rather than LAT 213. Of these, LAT 351 is recommended.

Candidates for the B.S. Degree

The student earning a B.S. degree may meet the foreign language requirement through two years of college language study or the equivalent. Specifically, this allows for several interpretations.

For the B.S. student with:

Zero to one year of high school language, the requirement allows for two choices: the completion of a full sequence of study in **one** language (two years, 111-213), or one year each of study at the beginning level in **two** different languages (two years, 111-113, 111-113).

Two to three years of high school language, the requirement allows for two choices: the completion of the intermediate level of the **same** language (211-213), or the completion of the beginning year of a **second** language (111-113).

Four or more years of high school language, i.e., four years of the same language or two years each of two different languages, may consider the language requirement met.

Candidates for Either Degree

For the limited number of major programs that offer both the A.B. and the B.S. degrees (see listing in the Degrees, Majors, and Minors section), the student may choose which degree to pursue. See the above section for details of language requirements.

International Students

For international students whose first or native language is not English, the foreign language requirement may be satisfied by demonstrating competence in English. This must be approved by the director of the Ohio Program of Intensive English (OPIE) and generally requires the successful completion of at least one course in English as a foreign language. In some cases, the chair of the Department of Linguistics may certify for the student an acceptable level of ability in a non-English language. The student may also satisfy the foreign language requirement by taking a foreign language other than his or her own.

Enrollment in the beginning or intermediate levels (under 300) of a student's own first language(s) will be considered a non-credit course.

Humanities Area Requirement*

The humanities requirement may be met by a selection of 18 quarter hours from two or more areas, with at least eight hours in one area, from among the following:

- a** AAS 110, 150, 210, 211, 250, 310, 350, 355, 356
- b** art history
- c** classical archaeology (listed under Foreign Languages and Literature)
- d** classical languages in English (CLNG)
- e** comparative arts

- f** Dance Cultures of the World (DANC 351, 352, 353); History of Dance (DANC 471, 472, 473); and Viewing 20th-Century Dance (DANC 170 and 370)
- g** English courses **except** ENG 150, 151, 152, 153, 153A, 153B, 450A & B
- h** foreign language courses other than those used to complete the foreign language requirement
- i** Foreign Literatures in English (FL)
- j** HUM 107, 108, 109, 117, or 307, 308, 309 (Great Books)
- k** HIST 121, 122, 123, 314A-F, 328, 329A-C, 330, 331, 351, 352, 353A-B, 354, 356A-C, 357, 370, 389
- l** INCO 351, 352, 353 Rhetoric
- m** ML 370J
- n** music history and literature
- o** philosophy **except** 120
- p** THAR 270, 271, 272 History of Theater

Social Sciences Area Requirement*

The social sciences requirement may be met by a selection of 18 quarter hours from two or more areas, with at least eight hours in one area, from among the following:

- a** AAS 101, 202, 220, 225, 340, 341, 360, 368, 440
- b** anthropology **except** 201, 492, 496
- c** BUSL 255, 370, 442, and 475
- d** economics
- e** geography **except** 101, 302, 303, 411
- f** history **except** those listed under No. 5k
- g** INST 103, 113, 121
- h** linguistics
- i** political science
- j** psychology **except** 121, 226, 312, 314, 321
- k** social work
- l** sociology

Natural Sciences Area Requirement*

The natural sciences requirement may be met by a selection of 18 quarter hours from two or more areas, with at least eight hours in one area, from among the following:

- a** anthropology 201, 492, 496
- b** astronomy
- c** biological sciences

- d** chemistry **except** 115
- e** computer science **except** 120, 135, 220
- f** environmental and plant biology
- g** GEOG 101, 302, 303, 411
- h** geological sciences
- i** mathematics **except** 101, 113, 115, 117, 118, 120, 121, 122, 151, 320
- j** microbiology
- k** physical sciences
- l** PSY 226, 312, 314
- m** physics

Note: methods courses are not applicable to the area requirements.

*The above listings (items 5, 6, and 7) must be used as the official guide for the completion of the Arts and Sciences area (distribution) requirements. Exceptions to the 18-hour Arts and Sciences area distribution requirements will be made only under the most unusual of circumstances and are by petition only. Consideration for inclusion of courses not listed is not made on an *ad hoc* basis, but rather requires formal approval of the Arts and Sciences Curriculum Committee.

Some courses from these categories may be applied also to the University General Education Tier II (breadth of knowledge) requirements. However, the three Arts and Sciences area categories differ in scope from the five Tier II groupings (Humanities and Fine Arts, Natural Sciences and Mathematics, Applied Sciences and Technology, Social Sciences, and Third World Cultures). A student wishing to select a course that will apply simultaneously to both the Arts and Sciences and the Tier II General Education Requirements must take care to choose a course that has been approved for the desired category in both the college and the University requirements. (The list of courses approved for each of the Tier II categories appears under the Graduation Requirements section of this catalog.) Note that courses that can fulfill the University Tier I quantitative skills and freshman composition requirements and the Tier III requirement do not apply to the Arts and Sciences area distribution requirements.

Level of Study Requirement (Hours Above 200)

Within the total hours applied to the degree, at least 90 quarter hours of Arts and Sciences (liberal arts) courses must be above the freshman level, that is, numbered above 199. Arts and Sciences courses are defined as those courses listed under humanities, social sciences, and natural sciences (items 5, 6, and 7, above), including foreign languages, courses from the department major, and courses taught by faculty in the College of Arts and Sciences intended to meet the junior composition or Tier III requirement.

Economics majors may apply a maximum of 15 hours from QBA 201 and other advanced offerings in statistics to the 200-level requirement for Arts and Sciences.

Non-Arts and Sciences courses are almost always counted as electives and are not applied to the 200-level requirement. Rather, they apply toward the 192-hour requirements for graduation.

Total Hours Required and Credit Allowed

A minimum of 192 quarter hours of credit is required for both the A.B. and the B.S. degree. However, no more than 72 hours in any one subject may be taken for an A.B. degree, and no more than 80 hours in one subject may be acquired for a B.S. degree. Any hours accumulated beyond the maximum allowed in the major area will necessitate an equivalent increase in the number of hours required to graduate from Ohio University.

Hours of coursework taken for credit (CR) that may be applied toward graduation is limited to 15 credit hours.

Non-credit courses (those numbered below 100); courses completed out of sequence, i.e., a lower-level course taken **after** an advanced course in the same field; certain technology courses; remedial courses—e.g., ENG 150, MATH 101—beyond the 8-hour limit; and credits duplicated by the repetition of coursework are not accepted toward the 192-hour requirement.

See the Academic Policies and Procedures section of this catalog for further details about credit and grading, retaking and repeating courses, and residence requirements that affect hours required.

Single Application of Credit

With certain exceptions listed below, no course may be considered to satisfy more than one of the area requirements in foreign language, humanities, social sciences, or the major requirement. (For example, a philosophy major may not apply any courses in philosophy toward the humanities requirement.) Courses that fulfill freshman University Tier I requirements and Tier III classes do not apply to the area distribution requirements. Exceptions to the single application of credit rule are:

Courses required for a major, but outside the major department, e.g., extradepartmental requirements, will be counted toward the area requirements. In the case of interdisciplinary majors (i.e., international studies, classical studies), required courses normally do **not** apply to the distribution areas.

Courses required for a minor will be counted toward the area requirements.

Courses at the beginning and intermediate levels of a foreign language for the student majoring in that foreign language may fulfill the language requirement because the major is defined as including only those language courses **above** the intermediate level.

Courses at the junior level in advanced composition offered by departments within the College of Arts and Sciences apply to the area distribution requirements.

Averages Required

To receive a degree from the College of Arts and Sciences, the student must have a minimum 2.0 grade-point average (g.p.a.) on all of the following:

All hours attempted at the college level

All hours attempted at the college level in the major

All hours attempted at Ohio University

All hours attempted at Ohio University in the major

The graduation g.p.a. is computed after deductions for retaken and non-credit courses have been made. (See the Academic Policies and Procedures section of this catalog for information regarding retaken course removal.)

General Degree Information

Advising

Every student in the College of Arts and Sciences is assigned an advisor. For students with declared majors, the advisor is a faculty member in the department of the major. For undecided students, advisors are assigned from Arts and Sciences faculty and administrative staff. It is expected that the student will consult the department of his or her major in order to schedule a conference during the advising period prior to preregistration for the next quarter.

While advisor conferences are particularly encouraged during preregistration, it is recommended that the student be in **regular** contact for assistance with concerns related to academic and career planning. **Any** arrangements deviating from the major requirements, as described in the Courses of Instruction section of this catalog, must be communicated in writing by the department chair or the undergraduate advising chair to the dean's office. It should be noted that while the advisor may assist with scheduling, it is ultimately the **responsibility of the student to see that program requirements are being met.**

To change majors, the student must contact the Office of Student Affairs. At this time, an advisor will be assigned, or instructions will be given regarding a new advisor. All other matters pertaining to advisors are administered by the departmental offices.

Double Major

For a degree to be granted, it is necessary to complete at least one formal major. A second (or more) major(s), an option that any Arts and Sciences student may elect to pursue, requires that all requirements for each major, as described in the Courses of Instruction section of the catalog, be fulfilled. No courses in any major, except extradepartmental requirements (such as chemistry for a biological sciences major), may be applied to the area distribution requirements. Completing more than one major, however, does **not** increase the hours required for Arts and Sciences area requirements or the 192 hours to graduate.

Second Bachelor's Degree

The College of Arts and Sciences awards the A.B. or B.S. degree only once to the student who completes more than one major within the degree program (e.g., sociology, African American Studies). It is possible, however, to earn both the A.B. and the B.S. degrees (e.g., Spanish, microbiology) or to earn degrees from separate degree-granting colleges (e.g., College of Arts and Sciences, College of Health and Human Services).

University policy requires the completion of **a minimum of 208 quarter hours for the second degree** (i.e., an additional 16 hours beyond the 192 required for the first degree), including all specific requirements for both degree programs. For the guidelines to earning a second bachelor's degree, refer to the Graduation Requirements section of this catalog.

Pass/Fail

According to University policy, no course taken pass/fail may fulfill any graduation requirement except the total-hours requirement. For the Arts and Sciences student, this policy effectively restricts taking pass/fail courses that apply to the foreign language, humanities, social sciences, natural sciences, major, minor, 90-hour level of study, and special curricula requirements, until all requirements are completed. Courses taken pass/fail are therefore limited strictly to electives which may total no more than a maximum of 20 hours. No course taken pass/fail prior to completing requirements, as described above, will be credited toward any Arts and Sciences degree requirement.

See the Pass/Fail section in the Academic Policies and Procedures section of this catalog for further information.

Teacher Certification

Students in the College of Arts and Sciences may meet the special requirements for certification to teach at the secondary school level by completing requirements for either the A.B. or the B.S. degree program, and additionally, by completing requirements for certification through the College of Education. Information about certification is available from Student Services, College of Education.

Transfer Study and Transient Study

Transfer study involves credit hours transferred to the College of Arts and Sciences when a student from another institution enrolls to complete a degree at Ohio University. Transient study is the credit hours earned by an Ohio University student who is taking a limited number of hours at another institution for the express purpose of fulfilling specific Ohio University or College of Arts and Sciences requirements.

The college determines the transferability of credit from other institutions based upon two factors: 1) whether the institution is accredited, OR 2) whether it is a recognized candidate for accreditation. The college follows recommendations of the American Association of Collegiate Registrars and Admissions Officers (AACRAO) in recognizing transfer credit. In the case of foreign institutions and other special cases, the college accepts the recommendations of the University examiner in the Office of Admissions.

The following are important points to consider in any instance involving transfer credits:

The college evaluates credits on a course-by-course basis, assigning Ohio University course numbers whenever possible. This enables the student to view the transfer credit as though it had been completed here and thus better determine how the courses fulfill graduation requirements.

Technical credits (credits for courses such as diesel mechanics or office management not offered by four-year institutions at the baccalaureate level) are evaluated as technical electives (TECE) and do not meet any specific degree requirements. Up to 25 hours of technical electives may be accepted in programs where the student can take advantage of the allowable credit. In programs with very little room for free electives, the potential benefit from this coursework may be considerably less than the 25-hour maximum. In any case, any technical elective credits accepted apply only toward the 192 hours required for graduation. (The student currently enrolled in a two-year program will benefit from taking as much course-

work as possible in college-level humanities, social sciences, mathematics, and science, in order to improve the chances of completing a four-year baccalaureate program at Ohio University with two more years of study.)

A transfer student is required to complete at least 12 quarter hours of 2.0 work in the major with courses at the 300 level or above at Ohio University. The courses should be approved by the department chair. A transfer student with a double major is required to complete at least nine quarter hours at the 300 level or above in each of the two departments at Ohio University, while maintaining a 2.0 g.p.a. Courses should be approved by the chairs of the two departments involved.

Before registering for courses to earn credit by transient study, the student must secure approval from the dean. A visit to the Office of Student Affairs allows for review and clarification of requirements and prevents loss of credit. A catalog or course description is helpful in determining the value of the intended transfer credit.

The senior student wishing to earn credit by transient study must complete the final 16 hours in residence at Ohio University if 96 or more hours were previously earned in residence. The student with fewer than 96 hours earned in residence must complete a final residence requirement of 48 hours.

The student intending to change from another college within Ohio University to the College of Arts and Sciences must have an accumulative g.p.a. of 2.0.

Time and Resident Course Load Limitations

Graduation requirements are defined by the "catalog of entry" and remain in effect for five years from the student's admission date to Ohio University. The student should keep in mind that to graduate in four years, an average course load of 16 hours per quarter is necessary. Five years after entry, graduation requirements become defined by the current catalog.

Students whose program requirements include courses numbered below 300, as is the case with foreign language, should attempt to begin meeting such requirements no later than the sophomore year. Registration by juniors and seniors in courses numbered below 300 is discouraged, and in some cases, prohibited.

For specific information involving graduation requirements, including residence requirements, i.e., the minimum amount of credit hours which must be completed at Ohio University in order to receive a degree from this institution, see the Graduation Requirements section of this catalog.

Degree *in Absentia*

A student wishing to earn a degree *in absentia* must have:

completed 144 quarter hours at Ohio University, including specific requirements for the chosen program

earned a g.p.a. of 2.0 or better on all work attempted and on all work in the major

completed all General Education Requirements

completed all college area distribution requirements, except the 200-level requirement, of which 45 hours must be completed

completed a full year's work in an accredited school of dentistry, forestry, law, medical technology, medicine, optometry, physical therapy, or veterinary medicine

been advanced without condition to the second year of training when the professional school's program is for two or more years

successfully completed the professional program specified.

For the clinical laboratory science program, the student must receive the approval of the clinical laboratory science advisor. For any other *in absentia* programs, a statement must be secured from the dean of the college before the student enters the professional school granting the degree *in absentia* privilege.

The degree *in absentia* program is not available for programs in Arts and Sciences other than those listed above.

The student in Arts and Sciences is encouraged to become familiar with the preceding section of this catalog, which relates specifically to the College of Arts and Sciences, as well as to the Graduation Requirements and Academic Policies and Procedures sections located in the front portion of this catalog. These pages contain essential information about General Education Requirements, the grading system, probation, credit hour loads, and residence requirements.

Study Abroad

Among the many study abroad opportunities offered by Ohio University are several coordinated by the College of Arts and Sciences. For information about the programs listed, contact Connie Perdreau, Study Abroad coordinator for Arts and Sciences, Gordy Hall 212C.

Language Programs: Intensive German Abroad, Salzburg, Austria, spring quarter; Intensive French Abroad, Tours, France, spring quarter; Japanese Culture and Language Abroad, Chubu University, Nagoya, Japan, fall quarter; Intensive Spanish Abroad, Merida, Mexico, winter quarter.

Student Exchange Programs: Odense University Exchange Program, Odense, Denmark, fall quarter or one academic year; Johannes Gutenberg University Ex-change Program, Mainz, Germany, one academic year; University of Wales Exchange Program, Swansea, Great Britain, one academic year.

Other A & S Programs: London Summer Study Program, England, three weeks.

Arts and Sciences students interested in learning about additional study abroad opportunities offered by Ohio University or other institutions should contact Mary Anne Flournoy, Center for International Studies, Burson House.

Special Curricula

Among the special curricula that follow, the four-year degree programs represent curricula that are structured to help the student prepare for a specific application of his or her undergraduate program to a selected educational or career objective. The student completing a given program will earn the major indicated in each case. For example, the student completing a formal premedicine program will graduate with a major in chemistry-premedicine or biological sciences-premedicine.

To be recognized as having completed a special curriculum and to meet graduation requirements, the student must complete the entire curriculum as listed, plus additional courses as necessary to complete a total of at least 192 hours, the University General Education Requirements, and the Arts and Sciences degree requirements. Should the student elect not to fulfill the special curriculum, then he or she, to fulfill the requirements for a major, must complete the requirements for the major as indicated in the Courses of Instruction section.

Preparation for Actuarial Sciences (A.B. or B.S.)

(Mathematics-Actuarial Sciences Major, major code #BS3105, BA3105)

The following program is intended to provide students with a course of study suitable for entry into the actuarial profession. A student who completes the program should be prepared to pass the first three of the ten actuarial examinations. Most students take one or two of these examinations before graduation. The program has a strong business component (with addition of BUSL 255 and two of MIS 300, MKT 301, OPN 310, it satisfies requirements for a business administration minor) and is also suitable for those students who plan to combine mathematics with a career in the business world.

Freshman

MATH 263A, B, C	Analytic Geom. and Calc.	12
MATH 250B	Finite Math.	4
ECON 103, 104	Prin.	8

Arts and Sciences degree requirements (including language), University General Education Requirements, and/or electives.

Sophomore

MATH 263D	Analytic Geom. and Calc.	4
MATH 340	Diff. Equations	4
MATH 211	Elem. Linear Algebra	4
QBA 201	Intro. to Bus. Stat.	4
ACCT 201, 202	Fin. Acct. and Man. Acct.	8

Arts and Sciences degree requirements (including language), University General Education Requirements, and/or electives.

Junior

MATH 450A, B, C	Theory of Statistics	12
CS 220	Intro. to Computing	5
FIN 325	Manag. Finance	4
MGT 300	Management	4

Arts and Sciences degree requirements (including language), University General Education Requirements, and/or electives.

Senior

MATH 444	Intro to Numerical Anal.	4
MATH 446	Numerical Linear Alg.	4
FIN 331	Risk and Insurance	4
FIN 436	Life Insurance	4
	MATH elective	4

Arts and Sciences degree requirements (including language), University General Education Requirements, and/or electives.

Preparation for Advanced Training in Astronomy (B.S.)

(Physics-Pre-Astronomy Major, major code #BS3335)

The following program will lead to the B.S. degree with a physics major and will provide the background required for admission to graduate school in astronomy.

Freshman

	English composition	5
MATH 263A, B, C	Analytic Geom. and Calc.	12
PHYS 210	Physics Seminar	1
PHYS 251, 252	Gen. Phys.	10

Arts and Sciences degree requirements (including language), University General Education Requirements, and/or electives.

Sophomore

MATH 263D	Analytic Geom. and Calc.	4
MATH 340	Diff. Equations	4
MATH 410 [†]	Matrix Theory	4
MATH 440	Vector Analysis	4
MATH 441	Fourier Analysis and Partial Diff. Equations	4
PHYS 253	Gen. Phys.	5
PHYS 272, 273	Electronics Lab	4
PHYS 351, 352	Modern and Quantum Phys.	8

Arts and Sciences degree requirements (including language), University General Education Requirements, and/or electives.

Junior

ASTR 300	Solar System	3
ASTR 301	Stellar Evolution	3
ASTR 302	Galaxies and Cosmology	3
ASTR 310*	Astronomy Lab	1-3
PHYS 311, 312	Mechanics	8
PHYS 371	Interm. Lab (Electrons)	2
PHYS 372	Interm. Lab (Photons)	2
PHYS 373	Interm. Lab (Nucleons)	2
PHYS 423 [†]	Optics	4
PHYS 451 [†]	Quantum Phys.	4
PHYS 453 [†]	Nuclear and Particle Phys.	4
	English composition	4

Arts and Sciences degree requirements (including language), University General Education Requirements, and/or electives.

Senior

ASTR 450*	Studies in Astronomy	1-3
PHYS 411	Thermodynamics	4
PHYS 412 [†]	Kinetic Theory and Stat. Mechanics	4
PHYS 427, 428, 429 [†]	Elec. and Magnetism	11

Arts and Sciences degree requirements (including language), University General Education Requirements, and/or electives.

For students in the Honors Tutorial Program, special combinations of some of the above courses are available.

*6 hours of astronomy beyond 302 in combined coursework from 310 and 450 is required

[†] Recommended

Note: math and astronomy courses complete the natural sciences requirement.

Preparation for Advanced Training in Mathematics (A.B. or B.S.)

(Mathematics-Prep. for Advanced Training Major, major code #BS3102, BA3102)

Students who envision eventually doing mathematics graduate work can ensure adequate preparation by building their programs around the basic mathematics offerings listed below. In addition, some computer science experience and coursework from the physical sciences is recommended. Interested students should consult an advisor in the Department of Mathematics for assistance in planning their programs.

Freshman

MATH 263A, B, C	Analytic Geom. and Calc.	12
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Arts and Sciences degree requirements (including language), University General Education Requirements, and/or electives.

Sophomore

MATH 263D	Analytic Geom. and Calc.	4
MATH 306	Found. of Math. I	4
MATH 314	Elem. Abstract Algebra	4
MATH 360	Interm. Analysis	4
	Math elective	4

Arts and Sciences degree requirements (including language), University General Education Requirements, and/or electives.

Junior-Senior

MATH 411	Linear Algebra	4
MATH 413A, B or MATH 480A, B,	Intro to Mod. Algebra	8
	El. Pt. Set. Top.	8
MATH 460A, B, C	Advanced Calculus	12

Arts and Sciences degree requirements (including language), University General Education Requirements, and/or electives.

The student also is encouraged to select some other 400-level mathematics electives as time and interest permit.

Preparation for Advanced Training in Physics (B.S.)

(Physics-Prep. for Advanced Training Major, major code #BS3334)

This is a demanding program for students interested in eventually getting advanced degrees in theoretical or experimental physics. However, courses are included that would equip the graduate for career opportunities in industrial and government laboratories. Students should also consult the physics curricula and courses in the Courses of Instruction section of this catalog and should consult the chair about this program during their freshman year.

Freshman

MATH 263A, B, C	Analytic Geom. and Calc.	12
PHYS 210	Physics Seminar	1
PHYS 251, 252	Gen. Phys.	10
CHEM 151, 152	Fund. of Chemistry	10
	English composition	5

Arts and Sciences degree requirements (including language), University General Education Requirements, and/or electives.

Sophomore

MATH 263D	Analytic Geom. and Calc.	4
MATH 340	Diff. Equations	4
MATH 440	Vector Analysis	4
MATH 441	Fourier Analysis and Partial Diff. Equations	4
PHYS 253	Gen. Phys.	5
PHYS 272, 273	Electronics Lab	4
PHYS 303*	Digit. Comput. Methods in Phys.	4
PHYS 351, 352	Modern and Quantum Physics	8
PHYS 423*	Optics	4

Arts and Sciences degree requirements (including language), University General Education Requirements, and/or electives.

Junior

MATH 410*	Matrix Theory	4
MATH 470*	Applied Complex Variables	4
PHYS 311, 312	Mechanics	8
PHYS 371	Interm. Lab (Electrons)	2
PHYS 372	Interm. Lab (Photons)	2
PHYS 373	Interm. Lab (Nucleons)	2
PHYS 420*	Acoustics (odd years)	3
PHYS 453*	Nuclear and Particle Phys.	4
	English composition	4

Arts and Sciences degree requirements (including language), University General Education Requirements, and/or electives.

Senior

PHYS 411	Thermodynamics	4
PHYS 412*	Kinetic Theory and Stat. Mechanics	4
PHYS 420	Acoustics (odd years)	3
PHYS 427, 428, 429*	Elec. and Magnetism	11
PHYS 475	Adv. Lab (each of three quarters)	3-9
PHYS 451	Quantum Mech.	8
PHYS 471*	Solid State Phys.	4
PHYS 493	Undergraduate Seminar	1

Arts and Sciences degree requirements (including language), University General Education Requirements, and/or electives.

*Recommended.

Preparation for Advanced Training in Plant Biology (B.S.)

(Plant Biology-Prep. for Advanced Training Major, major code #BS2116)

This program is intended for students who plan eventually to obtain advanced degrees in plant biology. Although the program as outlined below is adequate for the needs of most students, all interested students should be certain to consult with an advisor in the Department of Environmental and Plant Biology for individual assistance in program planning.

1 Required PBIO courses: 110, 111, 307, 308 or 312, 309, 310, 331, 404, 412, 424, 425, 431, 475

2 Required nondepartmental courses:

a CHEM 151, 152, 153, 305, 306, 307, 308, 309

b BIOS 171, 173

c PHYS 201, 202, 203

d MATH 263A, B, C

e MATH 250B or PSY 121

3 Recommended nondepartmental electives: CS 220 or CS 230

4 Arts and Sciences degree requirements (including language), University General Education Requirements, and/or electives.

Preparation Agri-Business (A.B.)

(Plant Biology-Agri-Business Major, major code #BA2117)

This program is intended for students interested in applying their knowledge about the plant sciences and the environment to business and industrial situations.

1 Required PBIO courses:

A minimum of 40 credit hours, including 110, 111, and at least one course from each of the following areas:

Area A: 331, 412, 424, 427, 431, 450, 453

Area B: 247, 248, 309, 425, 426, 475

Area C: 307, 308, 310, 312, 420, 460

2 Additional courses to the 40 credit-hour requirement are to be selected from areas A, B, or C, or from other PBIO courses numbered above 200, with the exception of those courses not intended for plant biology majors.

3 Required nondepartmental courses:

a CHEM 121, 122, 123; or CHEM 151, 152, 153

b BIOS 171, 173

c MATH 250B or PSY 121

d GEOL 101 plus a minimum of 8 hours from GEOL or GEOG

e Completion of the Minor in Business Administration

4 Recommended nondepartmental courses: BIOS 275, BUSL 370, POLS 425

5 Arts and Sciences degree requirements (including language), University General Education Requirements, and/or electives.

Preparation in Applied Mathematics (B.S.)

(Mathematics-Applied Major, major code #BS3103)

This program, offered by the Department of Mathematics, leads to a B.S. in mathematics with an emphasis on applications of mathematics to other disciplines. A student in this program should select a secondary area of concentration in either engineering, computer science, natural sciences, social sciences, or business. All interested students should consult with either the chair of the Department of Mathematics or an advisor for assistance in designing a suitable plan. The program's intent is to prepare the student for employment as a professional applied mathematician. A student in this major must design a program that meets the following requirements:

1 Required MATH courses: 263A, 263B, 263C, 263D, 306, 340, and 360

2 Additional MATH courses are to be selected from the following to make a total of at least 50 credit hours in mathematics: 410, 412, 440, 441, 442, 443, 444, 445, 446, 450A, 450B, 450C, 460A, 460B, 460C, 470

3 Arts and Sciences degree requirements (including language), University General Education Requirements, and/or electives

In addition to these requirements, it is recommended that a student in this major take the following nondepartmental courses:

a Computer Science: CS220 or CS 230, 231, 238; or CS 240A, 240B, 240C

b Communication Skills: INCO 103 and one of ENG 200, 201, 202... or 203

c Economics: ECON 103, 104, and QBA 201

d Secondary Area: 16 credit hours in the secondary area of concentration at the 200 level or above.

Preparation in Applied Physics (B.S.)

(Physics-Applied Major, major code #BS3332)

This four-year program offered in the Department of Physics leads to a B.S. degree in physics and allows an emphasis in experimental techniques together with engineering or other applied sciences. Such a program offers a broad basic education in several areas fundamental to present technology and is aimed at preparing students for many physics career opportunities in industry or government laboratories.

The particular sequence of courses will vary with the student's interests. The required courses in natural sciences, physics, and mathematics are the same as those listed under Physics and Astronomy in the Courses of Instruction section of this catalog. Students may then elect a sequence of courses in physics together with engineering, chemistry, or biology which are more applied in nature. Some examples of courses which may be included are: IT 101 and 102, Engineering Drawing; CHE 331, Principles of Engineering Materials; CE 423, Continuum Mechanics; CE 340, Fluid Mechanics; ME 407, Fundamentals of Nuclear Engineering; CHE 433, Physical Metallurgy; PHYS 475, Advanced Lab; PHYS 420, Acoustics; PHYS 471, Solid State Physics; and PHYS 470, Special Problems.

Interested students should consult the chair of the Department of Physics and Astronomy for assistance in planning their programs.

Preparation in Applied Plant Sciences (B.S.)

(Plant Biology-Applied Plant Sciences Major, major code #BS2114)

The Department of Environmental and Plant Biology offers this preprofessional program to provide students with a broad base for developing careers in horticulture, plant pathology, plant breeding, greenhouse management, or agricultural sciences. This program also prepares students for graduate studies in the above disciplines, as well as for such areas as integrated crop management, integrated pest management, landscaping, and agronomy.

Students who wish to include a minor in business administration with this program should consult with an advisor in the Department of Environmental and Plant Biology.

1 Required PBIO courses: 110, 111, 248, 309, 312, 331, 410, 412, 424, 425 or 426

2 Additional PBIO courses are to be selected from the following to make a total of at least 55 hours in plant biology: 308, 310, 427, 450

3 Required nondepartmental courses:

a CHEM 151, 152, 153, 301, 302

b BIOS 171, 173, 435

c PHYS 201, 202

d One of the following combinations:

(1) MATH 163, A, B

(2) MATH 250B and one course from CS 220 or 230

(3) PSY 121 and one course from CS 220 or 230

4 Arts and Sciences degree requirements (including language), University General Education Requirements, and/or electives.

Preparation for Biochemistry (B.S.)

(Chemistry-Biochemistry Major, major code #BS3316)

This program serves students who have an interest in biological applications of chemistry (1) as a biochemist or health scientist in medicine, industry, or research; (2) as preparation for graduate studies in biochemistry or another life science such as molecular biology, microbiology, or immunology; or (3) as preparation for combining a professional health career in medicine, dentistry, etc., with research in those fields. The curriculum selects coursework in all fundamental areas of chemical and biological sciences with special emphasis on advanced work in biochemistry, including biochemical laboratory techniques, instruments, experiment design, and protocols.

Freshman

CHEM 151, 152, 153	Fund. of Chemistry	15
MATH 263 A, B, C	Analytic Geom. and Calc. (strongly recommended)	12
or MATH 163A, B	Intro to Calc.	7
BIOS 170, 171, 172, 173	Intro to Zool.	14
	English composition	5

Arts and Sciences degree and General Education Requirements.

Sophomore

CHEM 241, 242	Quantitative Analysis	5
CHEM 305, 306, 307	Organic	9
CHEM 308, 309	Organic Lab	6
PHYS 201, 202, 203	Intro to Physics	15
BIOS 325	General Genetics	5

Arts and Sciences degree and General Education Requirements.

Junior

CHEM 325	Instr. Analysis	4
or CHEM 431, 434	Chem. Separation Meth.	4
CHEM 351	Physical Chem.	4
CHEM 490, 491, 492	Intro to Biochemistry	10
ENG 305J	Technical Writing	4

Arts and Sciences degree and General Education Requirements.

Senior

PBIO 450	Biotech. and Genetic Eng.	4
CHEM 493	Biochem. Techniques	2
CHEM 494	Biochem. Research	3
BIOS 342, 343	Prin. of Physiology	6
BIOS 460	Animal Physiology (Recommended)	4

Preparation for Biological Sciences-Nutrition (B.S.)

(Biological Sciences-Nutrition Major, major code #BS2510)

(Human Nutrition and Food Science, School of Human and Consumer Sciences, College of Health and Human Services, Nutrition-Biological Sciences)

This program provides a basis for those students desiring graduate study and research in nutrition and/or biological sciences.

The course sequence should be adhered to closely and always in consultation with an advisor assigned to the student either in the Department of Biological Sciences or in the School of Human and Consumer Sciences.

Should a student choose, he or she can major in the Department of Biological Sciences, College of Arts and Sciences; or a similar program may be pursued leading to a major in the School of Human and Consumer Sciences, College of Health and Human Services. (See listing under Nutrition with Science, Biological Sciences; and Food and Nutrition, School of Human and Consumer Sciences, College of Health and Human Services.)

Freshman

CHEM 151, 152, 153	Fund. of Chemistry	15
HCFN 128	Intro to Nutrition	4
MATH 163A, B	Intro to Calc.	7
PSY 101	Intro to Psych.	5
BIOS 170, 171, 172, 173	Intro to Zool.	14
	English composition	5

Arts and Sciences college degree requirements, University General Education Requirements, and/or electives.

Sophomore

CHEM 301, 302	Organic Chem.	6
HS 309	Microcomputer App.	4
ECON 103, 104	Intro to Econ.	8
HCFN 222	Food Science Prin.	4
HCFN 299	Soph. Pract. Prof. Awareness	1
HCFN 382	Intermed. Nutrition	4
PHYS 201, 202	Intro to Phys. *	10
PSY 121	Elem. Stat.	5
PSY 275	Educational Psych.	4
BIOS 325	Genetics	5

Arts and Sciences college degree requirements, University General Education Requirements, and/or electives.

Junior

HCFN 399A	Field Experience (liability insurance required)	5
HCFN 429	Community Nutrition	3
INCO 101 or INCO 103	Fundamentals of Speech Pub. Speaking	4 4
MICR 411 or MICR 211, 212	General Microbiol. Environmental Micr.	6 6
MGT 300	Intro to Mgt.	4
BIOS 303 or BIOS 300	Comp. Vert. Anat. Anatomy and Histology	6 6
BIOS 463	Cell Chem.	4
BIOS 464	Physiological Chem. Lab	3
	English composition	4

Arts and Sciences college degree requirements, University General Education Requirements, and/or electives

Senior

HCFN 400	Sr. Seminar	1
HCFN 422	Experimental Foods	4
HCFN 428	Adv. Nutrition	4
HCFN 430	Therapeutic Nutrition	4
HCFN 431	Studies of Science of Nutrition	3
HCFN 498A	Nutrition Counseling	4
SOC 101	Intro to Soc.	5
BIOS 345	Human Physiology	4
BIOS 479 or 425 or 481	Evolution	4

Arts and Sciences college degree requirements and/or electives.

*PHYS 203 may be required for admission to certain graduate and professional schools.

Students majoring in biological sciences must fulfill Arts and Sciences degree requirements including a language. (Spanish is recommended for this program.)

Unless otherwise indicated, all BIOS/MICR courses may be retaken only once.

Students pursuing this program in the School of Human and Consumer Sciences should see the listing under the College of Health and Human Services for specific degree requirements in that college.

Students interested in certification by the American Dietetics Association must complete the program offered through the School of Human and Consumer Sciences.

Minor in Business Administration

See description in College of Business Administration section of this catalog.

Preparation in Cartography (A.B. or B.S.)

(Geography-Cartography Major, major code #B54236, BA4236)

Cartography, the art and science of map making, is an integral part of geography. The spatial perceptions of geographers are translated into map form via various cartographic techniques. Cartography, in recent years, has become a major career objective within geography.

This program addresses both the academic and technical phases of cartography with the expressed purpose of leading to actual application and practical experience. The latter is accomplished through a practicum and employment in the Ohio University Cartographic Center (OUCC), an extension of the cartography program and the Department of Geography.

The Preparation in Cartography Program stresses a strong background in geography, emphasizes cartography-related courses, and complements these courses with specific courses from related areas. Graduates from this program will have an added advantage in the job market.

Geography major requirements with these specifications:

260	Maps	4
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Hours Over 300 Must Include:

360	Cartography	5
361	Statistical Cartography	5
365	Remote Sensing I	5
468	Automated Cartography	5
478	Geographic Information Systems	5

University General Education:

Tier I, Tier II, and Tier III requirements.

English 151 should be selected for the freshman composition requirement.

Courses to fulfill area requirements of the College of Arts and Sciences.

Language Requirement:		24 hrs
Arts & Sciences language requirement		
Humanities Requirement:		18 hrs
Arts & Sciences humanities requirement		
Social Sciences Requirement:		18 hrs
Arts & Sciences social sciences requirement		
Natural Sciences Requirement:		29-30 hrs
Mathematics:		
MATH 118	Elementary Applied Math where necessary	4
MATH 163A, B or MATH 263A, B	Intro to Calculus Analytic Geom. and Calc.	7 8
Computer Science:		
Two approved CS or MIS courses above the 199 level		
Geological Sciences:		
GEOL 101	Intro to Geology	5
GEOL 330	Principles of Geomorphology	5
Additional Requirements:		
CE 210 and/or ART 151	Plane Surveying Introduction to Graphic Design	4 4

Preparation for Cell Biology and Biotechnology (B.S.)**(Plant Biology-Cell Biology and Biotechnology Major, major code #BS2118)**

The Department of Environmental and Plant Biology offers a program in cell biology and biotechnology for those students interested in pursuing a profession in biotechnology or biology at the cellular or molecular level. This program can provide a sound basis for a technical career or for further study at the graduate level with a view to a career in research or teaching. As well as following closely the coursework outlined here and the requirements of the College of Arts and Sciences, students entering this program will be encouraged to elect additional coursework from the general field of biology appropriate to their chosen interest. Individual students should plan their programs in close consultation with an advisor in the Department of Environmental and Plant Biology.

- | | | |
|---|---|---|
| 1 Required PBIO courses: 110, 111, 309, 312, 331, 404, 424, 431, 450, and at least one course from the following: 412, 426, 427, 453 | 2 Required nondepartmental courses:

a CHEM 151, 152, 153, 351, 490, 491, 492, and either of the following: CHEM 305, 306, 307, 308, 309, or CHEM 301, 302, 303, 304

b BIOS 171, 173

c MICR 411 | d PHYS 201, 202, 203; or PHYS 251, 252, 253

e MATH 163A, B; or MATH 263A, B

3 Arts and Sciences degree requirements (including language), University General Education Requirements, and/or electives. |
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Preparation for Clinical Laboratory Science (B.S.)**(Biological Sciences-Clinical Laboratory Science Major, major code #BS2123)**

This program prepares students for work in hospital laboratories, public health bureaus, and other laboratories concerned with medical diagnosis and investigation. It leads to a Bachelor of Science in biological sciences and certification by the American Society of Clinical Pathologists or other certifying body.

The Ohio University-hospital school of clinical laboratory science affiliation for training of clinical laboratory scientists fulfills the requirements established by the A.M.A. and A.S.C.P. and affords the student an opportunity to earn the bachelor's degree.

After completing (1) a minimum of 144 quarter hours with at least a 2.0 g.p.a. in the major and in all hours attempted and (2) general education and all area requirements for the baccalaureate degree, the student is eligible to apply for admission to one of several affiliated hospital schools for the clinical program. Upon satisfactory completion of the 12-month clinical program, the student will receive the Bachelor of Science degree from Ohio University.

Approval occasionally may be granted for completion of the clinical program at hospitals other than those affiliated with Ohio University if such hospitals have C.A.H.E.A.-approved programs in clinical laboratory science and if, for reasons of location or other factors, this would better meet the needs of the student. A student seeking such approval is required to present a copy of the hospital's program of study to the Department of Biological Sciences for evaluation. The student may enroll in this substitute program if it is approved.

The student is urged to consult his or her advisor frequently during the pre-clinical period. Early in the fall quarter preceding the clinical program, specific information about applying to an affiliated school of medical technology should be obtained from the clinical laboratory science advisor.

During the 12-month clinical program, the student registers with and pays fees to Ohio University. A special fee schedule applies to these four quarters, and both fourth- and fifth-year students are required to register. Ohio University then pays the total tuition for each student to the hospital-based school of medical technology.

A student who transfers from another program or institution (including regional campuses of Ohio University) cannot normally expect to complete the pre-clinical requirements in three years unless the need to make up courses is minimal.

Students who remain at the Athens campus for their fourth, or senior, year can graduate with a B.S. in biological sciences/clinical laboratory science by fulfilling the requirements for the freshman, sophomore, and junior years listed below plus obtaining a total of 90 hours at the 200 level or above and completing a total of 192 credit hours. These students may then enter a hospital internship program to qualify for the A.S.C.P. certification exam. Students who are graduating with a B.S. in microbiology (BS0411, see Courses of Instruction Section, Biological Sciences) are also qualified to apply for admission to a clinical internship.

A student requiring financial assistance may apply for a Kellogg Foundation or other loan through the Office of Student Financial Aid and Scholarships.

Unless otherwise indicated, BIOS/MICR departmental courses may be retaken only once.

Freshman

CHEM 151, 152, 153	Fund. of Chemistry	15
	English composition	5
MATH 113	Algebra	5
or MATH 163A	Intro to Calc.*	4
BIOS 170, 171, 172, 173	Intro to Zool.	14

Arts and Sciences degree requirements, University General Education Requirements, and/or electives.

*Of the choices, this is recommended.

Sophomore

CHEM 241, 242	Quant. Anal.	5
CHEM 301, 302	Organic (short)	6
CHEM 325	Instr. Methods of Analysis	4
BIOS 300	Elements of Anat. and Histology	6
BIOS 325	Gen. Genetics	5
BIOS 345	Human Physiology	4

Arts and Sciences degree requirements, University General Education Requirements, and/or electives.

Junior

MICR 411	Gen. Micro.	6
MICR 415	Immunology	6
BIOS 453	Cell Chem.	4
BIOS 464	Physiol. Chem. Lab	3
	English composition	4

Arts and Sciences degree requirements, University General Education Requirements, and/or electives.

Four quarters of coursework constituting the clinical portion of the program are taken at a hospital-based school of medical technology. The student registers each quarter for these courses which are entitled Clinical Laboratory Science Internship 470A, B, C, and D. A typical program includes:

Bacteriology and Serology	18
Clinical Chemistry	23
Hematology	10
Immunohematology	5
Parasitology	3
Radioisotopes	1
Urinalysis	4

Preparation in Creative Writing (A.B.)

(English-Creative Writing Major, major code #BAS232)

By combining selected creative writing courses with the regular English major, the student may complete a special program in creative writing. For the specific requirements, see English Language and Literature in the Courses of Instruction section of this catalog.

Preparation for Criminology (A.B.)

(Sociology-Criminology Major, major code #BA4253)

The Criminology Special Curriculum is designed for those students who plan to pursue careers in some aspect of the criminal justice system (e.g., corrections, probation, parole, or law enforcement) yet wish to receive a liberal arts education. Students completing the program may wish to consider employment in criminal justice or further study in law, criminology, or criminal justice. Graduates of the program will receive a degree in sociology with the specialization in criminology noted.

Students are encouraged to enter the program as freshmen to help ensure completion in four years.

Total hours required:

Minimum 62; maximum 85, including PSY 101 and PSY 121.

Freshman

PSY 101	Gen. Psych.	5
PSY 121	Elem. Statistics (or approved equivalent)	4-5
SOC 101	Intro to Soc.	5
	Criminology Elective Group*	4-8
	English composition	5

Arts and Sciences degree requirements (including language), University General Education Requirements, and/or electives.

Sophomore

SOC 361	Deviant Behavior	4
SOC 362	Criminology	4
SOC 363	Juvenile Delinquency	4
	Criminology Elective Group*	4-8

Arts and Sciences degree requirements (including language), University General Education Requirements, and/or electives.

Junior

SOC 351	Research Techniques	4
SOC 466 or SOC 468	Penology Community Based Corrections	4
SOC 403 or SOC 404	Devel. of Soc. Thought Modern Soc. Theory	4
	Criminology Elective Group*	4-8
	English composition	4

Arts and Sciences degree requirements (including language), University General Education Requirements, and/or electives.

Senior

Criminology Elective Group* 4-8

Student must complete 8-14 hours from the following:

PHIL 442	Phil. of Law	5
POLS 404	Civil Liberties	4
POLS 409	Law Enforcement	5
POLS 477	Legal Theo. and Social Probs.	4
PSY 332	Abnormal Psych.	4
PSY 337	Social Psych. of Justice	4
SOC 495	Internship in Criminology (Permission only)	5-10

Arts and Sciences degree requirements (including language), University General Education Requirements, and/or electives.

*Students must complete four sociology courses from the Criminology Elective Group, which consists of SOC 201, 211, 230, 329, 331, 365, 430, 464, and 467 for a total of 16 hours.

Preparation for Dentistry

No specific area for the major is required by the dental colleges or by Ohio University. The student must present preparation in various basic sciences, and many students do complete a major in one science or a dual major in two sciences. Many dental schools now require at least a year of behavioral and social sciences as well as a year of English. (Refer to courses recommended to fulfill these requirements following the Biological Sciences Major Program, #BS2501.)

Currently, most dental schools are selecting students with bachelor's degrees; a very limited number who have completed three years and have met the degree *in absentia* privilege requirements are admitted.

All dental school applicants are required to take the Dental Aptitude Test (DAT), offered in the spring and the following fall. The latest that the DAT may be taken is in the fall of the year before matriculation in dental school. If feasible, it is better to take the DAT the previous spring.

Except for the lack of organic chemistry laboratory in the microbiology major (#BS0411, see Courses of Instruction Section, Biological Sciences, for requirements), the microbiology major would satisfy the requirements of most dental schools.

Biological Sciences-Predentistry Major (B.S.)**(Major code #BS2501)**

The following sequence of courses is required for predentistry students majoring in biological sciences. Additional selections from the recommended electives listed after the junior-senior program are encouraged. Students who elect the degree *in absentia* option must complete a minimum of 43 hours in BIOS/MICR; those who elect the four-year program must complete a minimum of 50 hours in BIOS/MICR. In addition, all predentistry students must meet the requirements of the general biological sciences major. (See Courses of Instruction section for requirements.)

Unless otherwise indicated, BIOS/MICR departmental courses may be retaken only once.

Freshman

CHEM 151, 152, 153	Fund. of Chemistry	15
	English composition	5
MATH 163A, B or MATH 263A, B	Intro to Calc.	7
	Analytic Geom. and Calc.	8
BIOS 170, 171, 172, 173	Intro to Zool.	14

Arts and Sciences degree requirements, University General Education Requirements, and/or electives. (English and comparative arts are recommended.)

Sophomore

CHEM 301, 302 or CHEM 305, 306, 307	Organic (short)	6
	Organic (long)	9
CHEM 303, 304	Organic Lab (short)	5
MATH 250B	Finite Math	4
PHYS 201, 202, 203	Intro	15
BIOS 303	Compar. Vert. Anat.	6
BIOS 325	Gen. Genetics	5
	Language if needed	12

Junior

BIOS 342, 343	Principles Physiology	6
	English composition	4
	Language if needed	12

Arts and Sciences degree requirements, University General Education Requirements, as needed.

Junior-Senior

CHEM 490, 491 or BIOS 463	Intro Biochem.	7
	Cell Chemistry	4
MICR 411	General Microbiology	6
BIOS 275 or 425 or 479 or 481		4
CLNG 127	Gk. and Lat. Words in Eng.	4

Other courses strongly recommended:

BIOS 406, MICR 417.

Recommended behavioral and social sciences:

ANTH 101 or 355; PSY 231, 273, 332, 336; sociology and computer science courses.

Recommended humanities:

philosophy, literature, comparative arts.

Chemistry-Predentistry Major (A.B. or B.S.)

Students wishing to major in chemistry and prepare for admission to dental school have the option of completing either of two degree programs, one leading to the A.B. degree and the other to the B.S. degree. Variations on these programs are possible with consultation with an advisor.

A.B. Chemistry-Predentistry Major**(Major code #BA3312)****Freshman**

CHEM 151, 152, 153	Fund. of Chemistry	15
BIOS 170, 171, 172, 173	Intro to Zool.	14
MATH 163A, B	Intro to Calculus	7
	English composition	5

Arts and Sciences degree requirements, University General Education Requirements, and/or electives.

Sophomore

CHEM 241, 242	Quantitative Analysis	5
CHEM 305, 306, 307	Organic Chemistry	9
CHEM 308, 309,	Organic Lab	6
PHYS 201, 202, 203	Intro to Physics	15

Arts and Sciences degree requirements, University General Education Requirements, and/or electives.

Junior

CHEM 325	Instrumental Analysis	4
CHEM 351	Physical Chemistry	4
ENG 305J	Technical Writing	4
BIOS 325	General Genetics	5

Arts and Sciences degree requirements, University General Education Requirements, and/or electives.

Senior

CHEM 476	Modern Inorganic Chem.	4
CHEM 490, 491, 492	Intro to Biochemistry	10
BIOS 303	Compar. Vert. Anat.	6

Arts and Sciences degree requirements, University General Education Requirements, and/or electives.

B.S. Chemistry-Predentistry Major
(Major code #BS3312)
Freshman

CHEM 151, 152, 153	Fund. of Chemistry	15
BIOS 170, 171, 172, 173	Intro to Zool.	14
MATH 263A, B	Analytic Geom. and Calc.	8
or MATH 163A, B	Intro to Calc.	7
	English composition	5

Arts and Sciences degree requirements, University General Education Requirements, and/or electives.

Sophomore

CHEM 241, 242	Quantitative Analysis	5
CHEM 305, 306, 307	Organic Chemistry	9
CHEM 308, 309	Organic Lab	6
PHYS 251, 252, 253	General Physics	15
or PHYS 201, 202, 203	Intro to Physics	15

Arts and Sciences degree requirements, University General Education Requirements, and/or electives.

Junior

CHEM 325	Instrumental Analysis	4
CHEM 351	Physical Chemistry	4
ENG 305J	Technical Writing	4
BIOS 325	General Genetics	5
BIOS 342, 343	Intro to Physiology	6

Arts and Sciences degree requirements, University General Education Requirements, and/or electives.

Senior

CHEM 476	Modern Inorganic Chem.	4
CHEM 490, 491, 492	Intro to Biochemistry	10
BIOS 303	Compar. Vert. Anat.	6
MICP 411	General Microbiology	6
or BIOS 405	Embryology	6

Arts and Sciences degree requirements, University General Education Requirements, and/or electives.

Preparation for the Study of the Environment

The study of the environment includes the physical nature of the planet as well as plant and animal interactions involving space, land, water, and other living organisms. Within the College of Arts and Sciences, the departments of Biological Sciences, Chemistry, Environmental and Plant Biology, Geography, and Geological Sciences offer programs for preparation in the study of the environment. These programs allow students to develop a fundamental knowledge of the nature of basic environmental parameters; a sense of the complex interactions of living organisms, including humans, on those parameters; and a basis for approaching solutions to problems resulting from this impact. A student choosing to major in the study of the environment at Ohio University should choose a discipline for intensive investigation (biological sciences, chemistry, environmental and plant biology, geography, geological sciences, microbiology) and, in consultation with the advisor in that department, develop a program of study to meet the particular goals of that student.

Degree-Granting Programs in the Study of the Environment

The following programs are offered. The requirements for each are listed below.

- 1 Preparation for Environmental Biology (Biological Sciences Emphasis)**
- 2 Preparation for Environmental Biology (Plant Biology Emphasis)**
- 3 Preparation for Environmental Chemistry**
- 4 Preparation for Environmental Geography**
- 5 Preparation for Environmental Geology**

1 Department of Biological Sciences Preparation for Environmental Biology (B.S.)

(Biological Sciences-Environmental Biology Major, major code #BS2509)

This specialized curriculum will provide the necessary course background for students preparing for graduate school or lower-level careers in fields of environmental and conservation biology. Courses taken will meet the requirements for admission to graduate school programs in biology, zoology, ecology, and conservation biology. The program also provides the necessary background for jobs with state and federal agencies (e.g., USDA or EPA) charged with environmental protection, research and monitoring, and information. Because the environmental field has become increasingly international in both activities and jobs and because the Peace Corps needs volunteers with an environmental biology education, a speaking knowledge of Spanish or French is strongly recommended. The requirements of the biology major (see the departmental listings) are also met with the requirements of this specialized curricular program.

Unless otherwise indicated, BIOS/MICR departmental courses may be retaken only once.

Freshman-Sophomore

ENG 151	Fr. Comp.: Writing and Rhet. (1E)	5
	Foreign Language Requirement	4+4+4=12
CHEM 151, 152, 153	Fund. of Chemistry (2N)	5+5+5=15
BIOS 170, 171, 172, 173	Intro to Zool.	5+5+4=14
MATH 163A, 163B	Intro to Calculus (1M)	4+3=7
MATH 250B	Finite Math	4
or PSY 121	Elem. Statistics	5
BIOS 275	Animal Ecology	4
BIOS 325	Genetics	5
BIOS 376	Field Ecology	4
HLTH 227	First Aid	3
HLTH 228	CPR (or evidence of certification)	1
PBIO 111	Introduction to Environ. and Plant Biology	6
INCO 103	Fund. of Public Speaking	4

Also Tier II General Education and Arts and Sciences humanities and social sciences requirements, and other electives.

Junior-Senior

	ENG Junior Level English Composition (1J)	4
CHEM 301, 302, 303, 304	Organic Chemistry (Lab)	6+5=11
PHYS 201, 202, 203	Intro to Physics	5+5+5=15
MICR 211, 212	Environmental Microbiology	4+2=6
BIOS 342, 343	Animal Physiology	3+3=6
BIOS 463 or CHEM 489	Cell Chemistry	4
BIOS 303	Comparative Vertebrate Anatomy	6
or BIOS 430	Invertebrate Zoology	6
or BIOS 435	Entomology	6
Tier III Senior Level Synthesis Course		4

Five additional elective courses: minimally one geology course, one philosophy course, one environmental and plant biology course for majors, and two geography courses. Courses from field stations or other nonbiology courses may be substituted, given permission from the program advisor. More biology courses may be taken, but they are not necessary to fulfill B.S. in biology requirements.

2 Department of Environmental and Plant Biology Preparation for Environmental Biology (B.S.)

(Plant Biology-Environmental Biology Major, major code #BS2113)

The Department of Environmental and Plant Biology designed this preprofessional program to give students a broad base for developing careers in environmental sciences, conservation, natural resources, forestry, environmental quality control, and ecology. Because graduate degrees may be required for entry into some positions, training beyond the bachelor's degree is strongly recommended.

1 Required PBIO courses: 110, 111, 247, 248, 309, 331, 404, 410, or MICR 211 and 212, or MICR 411, 420, 424, 425, or 426	c PHYS 201, 202, 203	h BUSL 370 or POLS 425
2 Required nondepartmental courses:	d MATH 163A	3 The following are strongly recommended as electives: PBIO 308 or 312, 310, ECON 103, 104, 313, MATH 163B, BIOS 435, 477
a CHEM 151, 152, 153, 301, 302	e MATH 250B or PSY 121	4 Arts and Sciences degree requirements (including language), University General Education Requirements, and/or electives.
b BIOS 171, 173, 275	f CS 220 or CS 230	
	g GEOL 101 and three courses from the following: GEOG 101, 201, 302 or 303, 350 or 447, 365, GEOL 211, 330, 432	

3 Department of Chemistry Preparation for Environmental Chemistry (A.B. or B.S.)

(Chemistry-Environmental Major, major code #BS3315, BA3315)

Students preparing for careers in environmental chemistry should pursue the regular B.S. or A.B. in chemistry and take some of the following environmentally related courses as electives. The Department of Chemistry has advisors in environmental chemistry to assist students in planning their studies in the field.

The major requirement for the B.S. degree includes the following: CHEM151-152-153; 241-242; 305-306-307-308-309; 400A-B; 453-454-455; 456-457; 476; 431-432-433-434-435-436; 489 or 490-491-492. Extradepartmental requirements include MATH 263A-B-C-D, and PHYS 251-252-253, which should be completed by the end of the second year. The B.S. degree program is chosen by students seeking entrance into graduate programs in chemistry.

The major requirement for the A.B. degree includes the following: CHEM151-152-153; 241-242; 301-302 or 305-306-307; 303-304 or 308-309; 325 or any two of the following pairs of courses: 431-434 or 432-435 or 433-436; 351 or 453-454-455; 476; and a course in biochemistry. A full year's work is required in at least one of the following fields: analytical (241-242, and any two of the following pairs of courses: 431-434 or 432-435 or 433-436), organic (305-306-307), physical (453-454-455), or biochemistry (490-491-492).

The following environmentally related electives are suggested courses to choose from: BIOS 275; MICR 211, 212; CHEM 330; BUSL 370; ECON 313, 314, 335; CHE 461; CE 452; GEOG 201, 241, 350, 353, 440; GEOL 215, 231, 480; PBIO 410; POLS 425.

4 Department of Geography Preparation for Environmental Geography (B.S.)

(Geography-Environmental Major, major code #BS4232)

Students preparing for a career in environmental geography should pursue a B.S. degree with a major in geography. Students planning to follow this curriculum should consult the chair of the Department of Geography as soon as they elect this program so that they can be assigned to advisors.

Students in this program are required to complete a minimum of 192 hours, including geography major requirements; the Arts and Sciences degree requirements in foreign languages and humanities; the University General Education Requirements; and the courses listed below:

Core Curriculum

Geography major requirements with these specifications:

201	Environmental Geography	4
241	Global Issues	4

Choice from this list fulfills techniques requirement:

360	Cartography	5
260 and 365	Maps and Remote Sensing I	9
260 and 478	Maps and Geographic Information Systems	9

Hours over 300 must include five hours from this list:

302	Meteorology	5
303	Climatology	5
321	Population Geography	4
344	Agro-Ecosystems	4
350	Land Use Planning	4
353	Environmental Planning	4
411	Advanced Physical	4
440	Environmental Impact Analysis	4
447	Resource Management	5
466	Remote Sensing II	5
475	Analysis of Geographic Systems	4
478	Geographic Information Systems	5
479	Adv. Geographic Information Systems	5

General requirement:

CHEM 121, 122, 123 or 151, 152, 153	15
MATH 163A, B or 263A, B, C	9-12

Choose at least 18 hours from the biological sciences or 13 hours from the earth sciences group below. The student should take at least eight hours in one subject area and at least two different subject areas. This concurrently will satisfy the Arts and Sciences natural sciences degree requirement in biological sciences and will partially satisfy the requirement in earth science.

Biological Sciences (18 hrs req):

BIOL 101*	Prin. of Biol.	5
PBIO 102	Plant Biol.	5
PBIO 103	Plants and People	4
PBIO 110*	Intro to Bot.	6
PBIO 111	Intro to Bot.	6
PBIO 160	Applied Plant Sci. and Tech.	4
PBIO 220	Woody Plants	4
PBIO 247	Veg. N. Amer.	4
PBIO 248	Trees and Shrubs	4
PBIO 303	Medicinal Plants of Ohio	3
PBIO 410	Plants and Soil	4
PBIO 425	Ecol.	5
PBIO 426	Phys. Plant Ecol.	5
MICR 211	Environ. Micro.	3
MICR 212	Environ. Micro. Lab	2
BIOS 101*	Prin. of Biol.	5
BIOS 103	Human Biol.	5
BIOS 170, 171, 172, 173	Intro to Zool.	14
BIOS 220	Cons. and Biodiver.	4
BIOS 376	Ecol. Lab	3
BIOS 477	Population Ecol.	4
BIOS 478	Community Ecology	4
BIOS 481	Animal Conserv. Biol.	4

*Note that credit is awarded only for one of the following courses: BIOL 101, PBIO 110, BIOS 101, BIOS 170. Note also that credit is not awarded for both PBIO 102 and PBIO 111.

Earth Sciences (13 hrs req):

GEOL 101	Intro to Geology	5
GEOL 211	Intro Oceanography	4
GEOL 215	Environmental Geology	4
GEOL 231	Water and Pollution	4
GEOL 270	World Mineral Resources	3
GEOL 330	Prin. of Geomorphology	5
GEOL 432	Origin and Classification of Soils	4
GEOL 470	Mineral Resources	4
GEOL 480	Hydrology I	4
GEOL 481	Hydrology II	4

To complete the natural sciences requirement, add at least five more hours of nongeology natural sciences.

Choose at least four courses (portion of Arts and Sciences social sciences requirement) from the list below:

ANTH 378	Human Ecology	4
BUSL 255	Law and Society	4
BUSL 370	Environ. Law	4
ECON 103	Prin.	4
ECON 104	Prin.	4
ECON 303	Microeconomics	4
ECON 304	Macroeconomics	4
ECON 313	Econ. of the Environ.	4
ECON 314	Natural Resources Econ.	4
ECON 335	Economics of Energy	4
HIST 333	Oil, Energy, Interna Diplomacy	4
POLS 425	Environ. and Nat Resource Politics and Policy	4
PSY 335	Environ. Psych.	5
SOC 340	Population Analysis	4

Complete the University General Education Requirements.

5 Department of Geological Sciences Preparation for Environmental Geology (B.S.)

(Geological Sciences-Environmental Major, major code #BS3323)

The preprofessional program in environmental geology, offered by the Department of Geological Sciences, is designed to provide the student with broad training in preparation for a career in conservation, natural resource management, land-use planning, and environmental quality control. In most instances, students electing this degree option should anticipate further training at the graduate level. It is important that students enrolling in this program consult with the undergraduate advisor in the Department of Geological Sciences before planning their schedule of coursework.

The specific courses listed below constitute the departmental requirements for this degree program. Students should schedule additional courses to fulfill the General Education Requirements and the College of Arts and Sciences distribution requirements.

Freshman

GEOL 101	Intro to Geology	5
BIOL 101 or PBIO 102	Prin. of Biology Plant Biology	5
CHEM 151, 152, 153	Intro to Chem.	12

Sophomore

GEOL 315	Mineralogy	4
GEOL 320	Rocks	3
GEOL 330	Geomorphology	5
GEOL 350	Stratigraphy-Sedimentology	4
CHEM 301, 302	Organic Chemistry	6
MATH 163A, B or 263A, B*	Calculus	7 or 8
MATH 250B	Finite Math	4

Junior-Senior

GEOL 360	Structural Geology	5
GEOL 480	Hydrogeology I	4
	An approved field course	6
PHYS 201, 202 or 251, 252, 253*	Intro to Physics	10 or 15
BUSL 370	Environmental Law	4
BIOS 275 or PBIO 425	Animal Ecology Plant Ecology	4 5

Plus three courses selected from the following list:

BIOS 211, 212, 376, 431, 477, 478, 481	ECON 313, 314, 335	*Students should discuss the appropriate calculus and physics sequences with their departmental advisor.
CHEM 325, 431, 432, 433	GEOG 241, 302, 303, 350, 353, 365, 440, 447, 475, 478, 479	
	GEOL 407, 432, 476, 481, 482, 485	
	MICR 211, 212	
	PBIO 311, 410	
	POLS 410, 425	

Preparation for Exercise Physiology (B.S.)

(Biological Sciences-Pre-Exercise Physiology Major, major code #BS2516)

The following curriculum is designed to provide the student interested in pursuing a graduate degree in exercise or work physiology with the necessary coursework to prepare for advanced study in a research-oriented graduate degree program.

Completion of the coursework including electives and Arts and Sciences and General Education Requirements will culminate in the award of the Bachelor of Science in biological sciences-pre-exercise physiology. Those students who finish the four-year B.S. program must complete a total of at least 192 quarter hours with at least 90 hours in Arts and Sciences coursework above the freshman level (numbered 200 or above). Also, a minimum of 50 quarter hours in the Department of Biological Sciences is required, including departmental requirements and at least nine quarter hours taken at the junior-senior level.

Although an undergraduate degree in the area of exercise physiology may provide the recipient the opportunity to compete in the job market, most current employment opportunities require a master's and/or doctoral degree.

**Unless otherwise indicated, BIOS/MICR departmental
courses may be retaken only once.**

Freshman

CHEM 151, 152, 153	Fund. of Chemistry	15
ENG 151	Fr. Comp.: Writing and Rhet.	5
MATH 263A, B	Analytic Geom. and Calc.	8
PSY 101	Gen. Psych.	5
PSY 121	Elem. Stat. for the Behav. Sci.	5
BIOS 170, 171, 172, 173	Intro to Zool.	14

Arts and Sciences degree requirements, University General Education Requirements, and/or electives.

Sophomore

CS 120	Comp. Sci. Survey (or equivalent)	5
PHYS 201, 202	Intro to Physics*	10
BIOS 301	Human Anatomy	6
BIOS 345	Human Physiol.	5
BIOS 346	Human Physiol. Lab	3
BIOS 352 or BIOS 420	Biomechanics Animal Locomotion	4 4

Arts and Sciences degree requirements, University General Education Requirements, and/or electives.

Junior-Senior

CHEM 301, 302	Organic (Short)	6
BIOS 463 or CHEM 490, 491	Cell Chemistry Intro to Biochem.	4 7
MICR 411	Gen. Microbiol.	6
BIOS 325	Gen. Genetics	5
BIOS 445	Physiology of Exercise	4
BIOS 446	Physiology of Exercise Lab	3
BIOS 448 or BIOS 460	Cell Physiology Animal Physiology	4 4
BIOS 485 or 485H	Undergrad. Research	6-12
BIOS 425 or 479 or 481		4
	English composition	4
	Language, if needed	12

Arts and Sciences degree requirements, University General Education Requirements, and/or electives.

The following courses are suggested to be used to supplement the major or serve as electives:

ANTH 101	Intro to Cult. Anthropology	5
ANTH 355	Med. Anthropology	4
HCFN 128	Intro to Nutrition	4
HCFN 428	Advanced Nutrition	4
PHIL 231	Phil. of Sport	4
PHIL 331	Moral Prob. in Med.	5
PSY 231	Psych. of Adjust.	4
PSY 273	Child and Adolēs. Psych.	4
PSY 275	Educ. Psych.	4
PSY 332	Abnormal Psych.	4
SOC 101	Intro to Soc.	5
BIOS 303	Comp. Anat.	6
BIOS 409	Neurobiol. I	4
BIOS 410	Neurobiol. II	4
BIOS 450	Prin. Endocrinol.	4

*PHYS 203 may be required for admission to certain graduate and professional schools

Preparation for Field Biology (B.S.)

**(Plant Biology-Field Biology Major,
major code #BS2115)**

The program in field biology offered through the Department of Environmental and Plant Biology is designed to prepare students for employment as park naturalists and in outdoor education, outdoor education programs, and conservation. It should be emphasized that students who enter this program, if they later decide to pursue advanced training in biology, will have to acquire additional background in physics, math, and chemistry. Students wishing to include a minor in business administration with this program should consult with an advisor in the Department of Environmental and Plant Biology for details.

1 Required PBIO courses: 110, 111, 247, 248, 309, 310, 404, 420, 425

2 Additional PBIO courses are to be selected from the following to make a total of at least 50 hours in plant biology: 307, 308, 312, 331, 410, 426, 427, 431, 460, 475

3 Required nondepartmental courses:

a BIOS 171, 173, 275, plus a minimum of 8 hours from BIOS or MICR courses numbered 200 or above

b CHEM 121, 122, 123; or CHEM 151, 152, 153

c GEOL 101, plus a minimum of 4 additional hours from GEOL

d A minimum of 8 hours in GEOG from the following: 201, 260, 302, 303, 353, 360, 440, 494

e It is recommended that PSY 121 be used to fulfill the Tier I quantitative skills requirement.

4 Arts and Sciences degree requirements (including language), University General Education Requirements, and/or electives

Preparation for Forestry

(Plant Biology-Preforestry Major, major code #BS2112)

Although no formal professional forestry program is offered at Ohio University, the Department of Environmental and Plant Biology does offer an abbreviated program whereby interested students can obtain some preprofessional training in plant biology and related disciplines at the freshman and/or sophomore level at Ohio University and then transfer to a school of forestry or school of natural resources at a different university to complete upper-level courses in a formal professional forestry program. This option does offer advantages to the beginning student in that enrollments in professional schools of forestry are often limited, and competition for available spaces in the first year or two of such programs may preclude a student from initial admission to a formal program of training. Other than the general requirements for admission to Ohio University, no further requirements are necessary for admission to a preforestry program in the Department of Environmental and Plant Biology.

Students who wish to enroll at Ohio University for preprofessional training in plant science before applying for transfer to professional schools of forestry should contact the undergraduate advising director in the Department of Environmental and Plant Biology for a suggested preforestry curriculum and assignment to an advisor. The following sequence of courses is suggested for the freshman year of a preforestry program that would satisfy the requirements of many schools of forestry. Suggested course sequences for the sophomore year and above may be obtained through consultation with the undergraduate advising director and the student's individual advisor.

Freshman Year

1 Required PBIO courses: 110, 111

2 Required nondepartmental courses:

a BIOS 171, 173

b CHEM 121, 122, 123, or CHEM 151, 152, 153 (see advisor before selecting)

c One of the following combinations: MATH 163A, B; MATH 163A, 250B; MATH 263A, B, C (see advisor before selecting)

d Language and/or Tier III requirements

Preparation for Geographic Information Systems Analyst (B.S.)

(Geography-Geographic Information Systems Analyst Major, major code #BS4235)

The goal of the geographic information systems analyst program is to provide a technical background for geographers interested in working with business, government, or planning agencies. The emphasis of the program is twofold: first, to develop a strong background in the field of geographic information systems as practiced in the fields of cartography, remote sensing, and quantitative methods; second, to develop cognate skills in the fields of computer science, economics, mathematics, and public administration.

Geography Applications Track

Geography major plus Arts and Sciences requirements with these specifications:

Hours over 300 must include:

GEOG 324 or 475	Indust. Geog. Anal. of Geog. Sys.	4
GEOG 350	Land Use Planning	4
GEOG 353	Environmental Planning	4
GEOG 365	Remote Sensing I	5
Choice of GEOG 411, 440, or 447		4
GEOG 466	Remote Sensing II	5
GEOG 478	Geographic Information Systems	5
GEOG 479	Adv. Geog. Information Systems	5

Other Requirements

Social Sciences (select four courses):

BUSL 255	Law and Society	4
BUSL 370	Environmental Law	4
BUSL 442	Law of Property and Real Estate	4
BUSL 475	Government and Business	4
ECON 103	Prin. of Microeconomics	4
ECON 104	Prin. of Macroeconomics	4
ECON 303	Microeconomics	4
ECON 304	Macroeconomics	4
ECON 313	Economics of Environment	4

Natural Sciences includes:

MATH 163A and B or MATH 263A and B	7-8
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Gerontology Certificate Program

The colleges of Arts and Sciences and Health and Human Services jointly sponsor the undergraduate Gerontology Certificate Program for students in any major program within the University who want to gain knowledge and skills for a career in working with the elderly. Completion of this program is officially recognized on the student's transcript upon graduation.

See the College of Health and Human Services section of this catalog for Gerontology Certificate Program requirements.

Preparation for Government Foreign Service

(Economics-Pre-Foreign Service Major, major code #BA4223)

(History-Pre-Foreign Service Major, major code #BA4212)

(Political Science-Pre-Foreign Service Major, major code #BA4202)

Students desiring to prepare for the foreign service officer examinations, given yearly, are advised to acquire as broad an education as possible. Facility in written and spoken English; competency in a foreign language; and a good background in economics, history, political science, business, or public administration are essential. Detailed information about foreign service officer examinations, including sample questions from previous examinations, may be obtained from the major departments.

International Studies (A.B.)

(For additional information on international studies, please see the Center for International Studies section in this catalog.)

The Center for International Studies offers an undergraduate major leading to the Bachelor of Arts in international studies. The program aims to provide students with the tools to become highly proficient in understanding global affairs through (1) the study of the culture, geography, ecology, history, society, economy, and politics of a world region outside the United States (either Asia, Africa, Europe, or Latin America); (2) acquiring a high level of proficiency in a second language; (3) direct experience of another culture through study-abroad experiences; (4) development of a framework for a cross-cultural perspective on critical global issues; and (5) development of a global perspective as a background for an international career in government, business, education, service, or communication.

Study Abroad for International Studies Majors

Students majoring in international studies are required to spend a minimum of one quarter in a study-abroad experience, determined in consultation with the student's advisor and planned as an integral part of the program. The primary goals of the experience are to increase language competency and to expose the student to the culture of the world region upon which he or she is concentrating. In rare cases, the study-abroad experience may be waived due to prior experience, financial exigencies, or the like. In some cases an internship with an international organization in which the second language is used may be substituted for study abroad. Waiving or substitution of the requirement may be done only by the Bachelor of Arts in International Studies (BAIS) Committee upon petition to the student's advisor. Credit for the study-abroad experience will be awarded according to the procedures outlined in the Ohio University *Study Abroad Handbook*.

Language Requirement

To graduate with a Bachelor of Arts in international studies, a student must demonstrate proficiency in reading, writing, and speaking a language related to the area of concentration. The aim of this requirement is to produce students who are functional in a second language. To gain proficiency, the student may use any or all of the following: coursework at Ohio University, intensive summer language institutes, or study abroad in a country where the language is spoken. Language proficiency guidelines for each language acceptable for BAIS majors are available through the BAIS coordinator in the Center for International Studies or from the student's academic advisor.

Degree Requirements

Requirements for the A.B. in international studies consist of a minimum of 52 hours chosen from the International Studies Core and Area Studies Options, as follows:

International Studies Core—a minimum of six cross-cultural/international studies courses, one in international relations, two in comparative studies, and one in ecology. Area Studies Options—a minimum of 27 hours of coursework relating to one of the following world regions: Africa, Asia, Latin America, or Europe. Students must fulfill all Arts and Sciences requirements, including the language requirement. Courses required for the major (i.e., core and area studies) will **not** count toward area distribution requirements.

International Studies Core (25 hrs)

1 International Relations (5 hrs)

Required course: POLS 250 Int'l Relations (2S) 4

2 Comparative Studies

Select two courses from each category (16 hrs)

a

ANTH 101 Cultural Anthro. (2T) 5

ECON 370 Comp. Economic Systems 4

GEOG 121 Human Geog. (2S) 4

INCO 410 Cross-Cultural Communication 4

POLS 230 Comparative Politics (2S) 4

b

ANTH 350 Economic Anthropology 4

GEOG 131 World Regional: Third World (2T) 4

HIST 131 Third World History (2T) 4

POLS 340 Politics of Developing Areas (2T) 4

3 Ecology

Select one course from the following 4

ANTH 378 Human Ecology 4

GEOG 201 Environmental Geography 4

PBIO 103 Plants and People (2A) 4

Area Studies Options (27 hrs)

Area studies options are offered in relation to the following countries: Africa, Asia, Latin America, or Europe. For each option, students must select 27 hours, with a minimum of 12 from the area core.

Africa (27 hrs)

(Major code #BA4405)

Area Core (minimum of 12 hrs; no more than 8 from any one department)

ECON 455	African Economic Development	4
GEOG 351	Geography of Africa	4
HIST 341A-C	Early Trad., Modern Africa (2T)	4
INST 113*	Modern Africa (2T)	4
POLS 441	Government and Politics of Africa	5

*Required course

Electives

AAS 315	Literature of West Africa	4
AAS 316	Literature of South Africa	4
AH 332	West African Art	4
AH 33	Central African Art	4
ANTH 381	Cultures of Sub-Saharan Africa	4
EDIC 425A	Education and Development in Africa	4
ENG 470	Special Studies	4
(not available, except by permission when topic is African Lit)		
HIST 336A-B	North Africa	4
HIST 338	History of West Africa	4
HIST 338A	History of East Africa	4
HIST 342A-E	South Africa	4
HIST 343	Revolutions in Southern Africa	4
PBIO 411	Integrative Tropical Environmental and Plant Biology	4
PHIL 372	Islam (2T)	4
PHIL 478	African Philosophy	5
POLS 463	The U.S. and Africa	5
POLS 490C	The OAU and Africa	5

Asia (27 hrs)

(Major code #BA4406)

Area Core (minimum of 12 hrs; no more than 8 from any one department.)

ANTH 385	Cultures of SE Asia	4
ECON 473	Economics of SE Asia	4
ENG 306A-C	Oriental Literature (2T)	5
GEOG 338	Geography of SE Asia	4
HIST 345A-C	Southeast Asian History (2T)	4
HIST 346A-B	China (2T)	4
INST 103*	Modern Asia (2T)	5
PHIL 475	Chinese Philosophy	5
POLS 447A-B	Government and Politics of SE Asia	4

*Required course

Electives

AH 330	Arts of the Orient (2T)	4
ANTH 386	Problems in SE Asian Anthropology	4
HIST 242	Issues in Modern Asian History	4
HIST 246	The Rise of Modern Asia	4
HIST 344A	History of Malay World	
HIST 344B	History of Burma and Thailand	4
HIST 344C	History of Vietnam	4
HIST 348A-B	Japan	4
HUM 117	Books of the Orient	4
INDO 340	Traditional Lit. of SE Asia	3
INDO 345	Modern Lit. of SE Asia	3
INST 350	Focus on Malaysia	5
INST 490	Tun Razak Seminar	5
PBIO 411	Integrative Tropical Environmental and Plant Biology	4
PHIL 370	Hinduism (2T)	4
PHIL 371	Buddhism (2T)	4
PHIL 372	Islam (2T)	4
POLS 445	Politics of Japan	4
POLS 446	Politics of China	4

HIST 358A-C	Early Modern Europe	4
HIST 366A-B	France	4
HIST 368A-B	Germany	4
HIST 372A-C	History of the Balkans	4
HIST 374A	Balance of Power	4
HIST 374B-C	History of International Diplomacy	4
HIST 375	World War I	5
HIST 382A	History of Russia	4
HIST 382B	Russia: Road to Revolution	4
HIST 483	Russian and Soviet History	4
PBIO 425	Plant Ecology	5
PHIL 444	Philosophy of Marxism	5
POLS 432	Policy Making in the U.S.S.R.	5
POLS 433	Soviet Foreign Policy	5
POLS 438	Government and Politics of Germany	5
POLS 439	Government and Politics of France	4

Europe (27 hrs)**(Major code #BA4407)****Area Core (minimum of 12 hrs; no more than 8 from any one department.)**

ECON 353	European Economic History	4
FR 356	Intro to French Literature	4
GEOG 340	West European Geography	4
GER 356	Intro to German Literature	4
HIST 362A-B	Europe 1814-1914	4
HIST 364A	Europe Between the Wars	3
HIST 364B	Contemporary Europe	4
HIST 382C	Soviet Union	4
PHIL 458	Contemporary European Philosophy	5
POLS 331	Politics in Western Europe (2S)	4
POLS 333	Politics in the Soviet Union	4
RUS 356	Intro to Russian Literature	4

Electives

AH 327	Art of the 19th Century	4
AH 328	Modern Art	4
BIOS 275	Animal Ecology	4
FLT 338A-B	German Literature in Translation	4
FLT 339B	Soviet Literature in English	4
FR 348-9	French Civilization and Culture	4
FR 355	Introduction to French Lit.	4
GER 235	German Drama on Stage	2-4
GER 348-9	German Civ. and Culture	4
GER 356	Introduction to German Lit.	4
HIST 265A	Hitler and His Nazis	4
HIST 356A-C	Renaissance and Reformation	4

Latin America (27 hrs)**(Major code #BA4408)****Area Core (minimum of 12 hrs; no more than 8 from any one department.)**

ANTH 366	Cultures of the Americas	4
ECON 474	Economics of Latin America	4
GEOG 335	Geography of Latin America	4
HIST 323A-C	Latin American History (2T)	4
INST 121*	Survey of Latin America (2T)	4
POLS 435	Revolution in Latin America	4
SOC 408	Latin American Society	4
SPAN 443	Spanish American Literature	4

*Required course

Electives

AH 331	Pre-Columbian Art	4
ANTH 368	Prehistory of Latin America	4
HIST 325	History of U.S.-Latin American Relations	4
HIST 426	Dictatorships in Latin America	4
PBIO 411	Integrative Tropical Plant Biology	4
POLS 434	Government and Politics of Latin America	4
POLS 479	Latin American Political Thought	4
SPAN 349	Spanish American Civ. and Culture (2T)	4
SPAN 350	Mexican Civilization and Culture	4

International Studies

Undergraduate Certificate

The center offers certificates in African, Asian, European, and Latin American studies to benefit students who wish to add an international dimension to their majors (without majoring in international studies), as well as to those interested in international careers or planning graduate work in area studies. The certificate is awarded upon graduation from Ohio University, and the proper notification is placed on the student's official transcript upon completion of the requirements.

The requirements for the European or Latin American Certificate are: (1) six courses relating to Europe or Latin America; (2) a study of a language relevant to the student's program through the intermediate level; and (3) a g.p.a. of 2.5 in all courses taken toward the certificate. The requirements for the Asian or African Certificate are: (1) 8 courses which may be chosen in either of these two options: *Option A*—Three of the courses must be in an African or Asian language, and the other five must relate to Africa or Asia; *Option B*—The eight courses must relate to Africa or Asia but with no language requirement; (2) a g.p.a. of 2.5 in all courses taken toward their certificate.

Students seeking the certificate must register with the undergraduate certificate advisor in their area studies program.

Preparation for Law

(Economics-Prelaw Major, major code #BA4222)

(English-Prelaw Major, major code #BA5234)

(History-Prelaw Major, major code #BA4214)

(Philosophy-Prelaw Major, major code #BA5244)

(Political Science-Prelaw Major, major code #BA4203)

(Sociology-Prelaw Major, major code #BA4254)

A student in the College of Arts and Sciences who plans to enter law school normally completes the specific requirements for the Bachelor of Arts degree. No special curriculum is prescribed. The prelaw student may complete a major in the area of his or her principal interest. The student is advised to select courses from as many of the following as possible: English composition and literature and American literature; history, with a preference for English and American; political science; economics; sociology; a laboratory science; mathematics; philosophy; ethics; logic; accounting; psychology; and a foreign language. Courses in speech and training in expression, as well as activities that develop the capacity for independent thought and action, are recommended. The departments of Economics, English, History, Philosophy, Political Science, and Sociology and Anthropology designate faculty advisors to help students interested in law careers. These advisors have information about the Law School Admission Test and can supply applications for this test.

The Ohio Supreme Court has ruled that a student entering law school must be able to show possession of an undergraduate degree from an approved college if he or she wishes to take the Ohio Bar Examination. Law schools in the state of Ohio require the degree of all entering students regardless of the state in which they plan to take the bar examination.

The degree *in absentia* privilege is available to students who do not plan to seek admission to an Ohio law school. A student who has completed 144 quarter hours at Ohio University with a g.p.a. of 2.0 or above on all hours attempted and who has satisfied the requirements for the A.B. or B.S. degree may obtain the degree after completing, at an accredited school of law, a full year's work of the quality prescribed for a bachelor's degree at Ohio University, provided he or she is eligible for advancement without condition to the second year of law school. Prior to entering the school of law, the student must secure a statement in writing from the dean giving the *in absentia* privilege.

Preparation for Marine Biology (B.S.)

(Biological Sciences/Marine Biology Major, major code #BS2514)

The program in Ecology, Behavior, and Evolution, in the Department of Biological Sciences, provides a program for undergraduate majors in biological sciences who are interested in marine biology. Since this is an increasingly international field, students are encouraged to gain the speaking knowledge of a language other than English (preferably Spanish or French) and are invited to consider the possibility of working for two years in the Peace Corps following graduation. Graduates from this program will meet state and federal civil service course requirements for registry as fisheries biologist, ecologist, and general biologist. This program will also provide undergraduate training for students planning to pursue graduate studies in biological sciences, ecology, or marine or freshwater biology. Since the program includes at least 50 hours in approved BIOS/MICR courses, students will meet the requirements of the general biological sciences major. (See Courses of Instruction section for requirements.)

Unless otherwise indicated, BIOS/MICR departmental courses may be retaken only once.

Freshman-Sophomore

ENG 151	Fr. Comp.: Writing and Rhet. (1E)	5
Foreign Language Requirement (typically)		4+4+4=12
CHEM 151, 152, 153	Fund. of Chemistry (2N)	5+5+5=15
BIOS 170, 171, 172, 173	Intro to Zool.	5+5+4=14
MATH 163A, B	Intro to Calculus* (1M)	4+3=7
PHYS 201, 202, 203	Intro to Physics (2N)	5+5+5=15
GEOL 211	Oceanography	4
MATH 250B	Finite Math. (Prob. and Stats.)	4
BIOS 275	Animal Ecology	4
HSC 156	SCUBA†	1
HLTH 227	First Aid†	3
HLTH 228	CPR†	1
HPES 218	Life Guard Training†	2

Tier II requirements, humanities and social sciences requirements, or electives.

*MATH 263A, B may be substituted

†Or evidence of prior certification.

Junior-Senior

Junior Level	English Composition (1J)	4
CHEM 301, 302	Organic Chemistry	3+3=6
BIOS 325	Genetics	5
MICR 411	General Microbiology	6
BIOS 429	Marine Biology	5
BIOS 430	Invertebrate Biology	6
BIOS 463	Cell Chemistry*	4
BIOS 342, 343	Principles Physiol.	3+3=6
Tier III Senior Level Synthesis Course		4

Tier II requirements, humanities and social sciences requirements, or electives.

*CHEM 489 may be substituted.

Plus four courses from the following list of electives, one of which must be BIOS:

BUSL 370	Environmental Law
CHEM 330	Introduction to Toxicology
GEOG 302	Elements of Meteorology
GEOG 350	Land Use Planning
GEOG 440	Environmental Impact Analysis
GEOL 221	Earth and Life History
GEOL 231	Water and Pollution (2A)
GEOL 340	Principles of Paleontology
GEOL 443	Advanced Invertebrate Paleontology
GEOL 448	Principles of Paleo-Ecology
BIOS 303	Compar. Vert. Anat.
BIOS 431	Limnology
BIOS 457	Animal Systematics
BIOS 468	Ichthyology
BIOS 471	Ornithology
BIOS 473	Animal Behavior
BIOS 474	Mammalogy
BIOS 477	Population Ecology
BIOS 478	Community Ecology
BIOS 479	Evolution
BIOS 481	Animal Conservat. Biol.

Courses from summer field stations or other appropriate courses may be substituted, but only with prior permission from the program advisor.

Preparation for Medicine

Most medical colleges require completion of the bachelor's degree for admission; all others require a minimum of three academic years.

No specific area for the major is required by medical colleges or by Ohio University in undergraduate preparation for medicine. The student must present preparation in various basic sciences, and many students do complete a major in one science or a dual major in two sciences.

For most medical schools, the requirements for admission include general chemistry; quantitative analysis; organic chemistry, including laboratory; mathematics; physics; general biological sciences; comparative vertebrate anatomy; and embryology. Many medical schools now require or strongly recommend at least a year of behavioral and social sciences, a year of English, including literature, and additional courses in humanities. (Refer to courses

recommended to fulfill these requirements following the Biological Sciences Major Program, code #BS2502.) If the student has a particular medical school in which he or she wishes to enroll, the program should be planned to meet the specific requirements of that school.

A major in microbiology, which meets the accreditation requirements of the American Society for Microbiology, is available for students who wish to maximize their potential for post-graduate studies in medicine or the health-related sciences.

All medical college applicants are required to take the Medical College Admission Test (MCAT) in spring (preferred) or fall of the calendar year previous to the year they expect to enroll in medical college.

A student who plans to complete only three years at Ohio University before entering medical college is urged to meet requirements of the College of Arts and Sciences so as to be eligible for the degree *in absentia* privilege.

Students are encouraged to note particularly the opportunities provided by the Ohio University College of Osteopathic Medicine.

Biological Sciences-Premedicine Major (B.S.)**(Major code #BS2502)**

Premedical students majoring in biological sciences will be required to complete the following program. Students who elect the degree *in absentia* option must complete a minimum of 43 hours in BIOS/MICR; those who elect the four-year program must complete a minimum of 50 hours in BIOS/MICR. In addition, premedicine students must meet the requirements of the general biological sciences major. (See Courses of Instruction section for requirements.)

Unless otherwise indicated, BIOS/MICR departmental courses may be retaken only once.

Freshman

CHEM 151, 152, 153	Fund. of Chemistry	15
MATH 263A, B	Analytic Geom. and Calc.	8
BIOS 170, 171, 172, 173	Intro to Zool.	14
CLNG 127	Gk. and Lat. Words in Eng.	4
	English composition	5

Arts and Sciences degree requirements, University General Education Requirements, and/or electives. (English and comparative arts are recommended.)

Sophomore

CHEM 301, 302	Organic (short)	6
or CHEM 305, 306, 307	Organic (long)	9
CHEM 303, 304	Organic Lab	5
PHYS 201, 202, 203	Intro Physics	15
BIOS 303	Compar. Vert. Anat.	6
BIOS 325	General Genetics	5
PSY 121	Elem. Statistics	5
	Language if needed	12

Arts and Sciences degree requirements, University General Education Requirements, and/or electives in humanities and social sciences.

Junior

BIOS 342, 343	Principles Physiol.	6
	English composition	4
	Language if needed	12

Other humanities and social sciences.

Junior-Senior

MICR 411	General Microbiol.	6
BIOS 406	Embryology	6
BIOS 463	Cell Chem.	4
or CHEM 489	Basic Biochem.	4
or CHEM 490, 491	Intro Biochem.	7
BIOS 275	Animal Ecol.	4
or 425 or 479 or 481		

Recommended electives: MICR 415 or 417, BIOS 326, 408, 461, CHEM 241/242.

Recommended behavioral and social sciences: ANTH 101 or 355.

Sociology and computer science courses: PSY 231, 273, 332, 336.

Recommended humanities: philosophy, literature, comparative arts.

Chemistry-Premedicine Major (A.B. or B.S.)

Students wishing to major in chemistry and prepare for admission to medical school have the option of completing either of two degree programs, one leading to the A.B. degree and the other to the B.S. degree. Variations on these programs are possible with consultation with an advisor.

A.B. Chemistry-Premedicine Major

(Major code #BA3314)

Freshman

CHEM 151, 152, 153	Fund. of Chemistry	15
MATH 163A, B	Intro to Calculus	7
BIOS 170, 171, 172, 173	Intro to Zool.	14
	English composition	5

Arts and Sciences degree requirements, University General Education Requirements, and/or electives.

Sophomore

CHEM 241, 242	Quantitative Analysis	5
CHEM 305, 306, 307	Organic Chemistry	9
CHEM 308, 309	Organic Lab	6
PHYS 201, 202, 203	Intro Physics	15

Arts and Sciences degree requirements, University General Education Requirements, and/or electives.

Junior

CHEM 325	Instrumental Analysis	4
CHEM 351	Physical Chemistry	4
ENG 305J	Technical Writing	4
BIOS 325	General Genetics	5

Arts and Sciences degree requirements, University General Education Requirements, and/or electives.

Senior

CHEM 476	Modern Inorganic Chem.	4
CHEM 490, 491, 492	Intro to Biochemistry	10
BIOS 303	Compar Vert. Anatomy	6

Arts and Sciences degree requirements, University General Education Requirements, and/or electives.

B.S. Chemistry-Premedicine Major

(Major code #BS3314)

Freshman

CHEM 151, 152, 153	Fund. of Chemistry	15
MATH 263A, B	Analytic Geom. and Calc.	8
or MATH 163A, B	Intro to Calc.	7
BIOS 170, 171, 172, 173	Intro to Zool.	14
PSY 121	Elem. Statistics	5
	English composition	5

Arts and Sciences degree requirements, University General Education Requirements, and/or electives.

Sophomore

CHEM 241, 242	Quantitative Analysis	5
CHEM 305, 306, 307	Organic Chem.	9
CHEM 308, 309	Organic Lab	6
PHYS 251, 252, 253	Gen. Phys.	15
or PHYS 201, 202, 203	Intro to Physics	15

Arts and Sciences degree requirements, University General Education Requirements, and/or electives.

Junior

CHEM 325	Instrumental Analysis	4
CHEM 351	Physical Chem.	4
BIOS 325	General Genetics	5
BIOS 342, 343	Prin. of Physiology	6
ENG 305J	Technical Writing	4

Arts and Sciences degree requirements, University General Education Requirements, and/or electives.

Senior

CHEM 476	Modern Inorganic Chem.	4
CHEM 490, 491, 492	Intro to Biochemistry	10
BIOS 303	Comp. Vert. Anatomy	6
MICR 411	General Microbiol.	6
or BIOS 406	Embryology	6

Arts and Sciences degree requirements, University General Education Requirements, and/or electives.

Preparation for Meteorology (A.B. or B.S.)

(Geography-Premeteorology Major, major code #BS4233)

(Mathematics-Premeteorology Major, major code #BS3104, BA3104)

(Physics-Premeteorology Major, major code #BS3336)

The following program is intended to provide an interdisciplinary program in the departments of Geography, Mathematics, and Physics for students who wish to prepare themselves for training at the graduate level in the fields of meteorology, climatology, and atmospheric physics. The choice of a geography, mathematics, or physics emphasis is open to the student.

Freshman

CHEM 151	Fund. of Chemistry	5
CHEM 152	Fund. of Chemistry	5
GEOG 101	Elements of Physical Geog.	5
GEOL 101	Intro to Geol.	5
MATH 263A	(or advanced placement),	
263B, 263C	Analytic Geom. and Calc.	12
	English composition	5

Sophomore

GEOG 201	Environmental Geography	4
GEOL 211	Oceanography	4
MATH 263D		4
MATH 340	Diff. Equations	4
MATH 440	Vector Analysis	4
MATH 441	Fourier Series and Partial Diff. Equations	4
PHYS 251, 252, 253	Gen. Phys.	15

Junior

GEOG 302	Meteorology	5
GEOG 303	Climatology	5
GEOG 304	Observations in Meteorology 2	
PHYS 311, 312	Mechanics	8
	English composition	4

Senior

Two courses in computer programming or quantitative methods (see advisor for approved list)		10
GEOG 405	Pract. in Meteorological Forecasting	2-10
PHYS 411	Thermodynamics	4

In addition, the student should select one of the three departments for specialization, contact that department for advising, and select the appropriate additional set of courses given below:

Plan A (Emphasis in Geography)

GEOG 121	Human Geography	4
GEOG 411	Adv. Physical Geography	4
GEOG 447	Resources Management	4
GEOG 260 or 360 or 365		4 or 5
GEOG 481	Senior Seminar	2

Plan B (Emphasis in Mathematics)

MATH 410	Matrix Theory	4
MATH 444	Intro to Numerical Analysis	4
MATH 445	Adv. Numerical Methods	4
MATH 446	Numerical Linear Alg.	4

Plan C (Emphasis in Physics)

CE 340	Fluid Mechanics	5
PHYS 272, 273	Electronic Lab	4
PHYS 316	Contemporary Phys.	3
PHYS 412	Kinetic Theory and Statistical Mechanics	4
or PHYS 423	Optics	4

Arts and Sciences degree requirements, University General Education Requirements, and/or electives.

Preparation for Optometry**(Biological Sciences-Pre-Optometry Major, major code #B52505)**

The requirements for admission to schools of optometry are not uniform. A minimum of 90 hours exclusive of military science and physical education is required. The following curriculum will meet the admission requirements for a collegiate program and consequently of most independent schools of optometry. The student planning to earn the degree *in absentia* must complete at least 144 hours including all Arts and Sciences and University General

Education Requirements and the program outlined below. This must include the departmental area requirements for the general biological sciences major. (See Courses of Instruction section for requirements.) If a student wants to graduate from Ohio University without realizing the *in absentia* option, the biological sciences major requirements for his or her catalog year of entry must be fulfilled.

Unless otherwise indicated, BIOS/MICR departmental courses may be retaken only once.

Freshman

CHEM 151, 152, 153	Fund. of Chemistry	15
BIOS 170, 171, 172, 173	Intro to Zool.	14
PSY 101	Gen. Psych.	5
MATH 250B or PSY 121	Probability Statistics	4/5
	English composition	5

Arts and Sciences degree requirements, University General Education Requirements, and/or electives.

Sophomore

CHEM 305, 306, 307	Organic	9
BIOS 275 or 425 or 479 or 481		4
BIOS 303	Compar. Vert. Anat.	6
BIOS 325	General Genetics	5
MATH 263A, 8	Analytic Geom. and Calc.	8

Arts and Sciences degree requirements, University General Education Requirements, and/or electives.

Junior

MICR 411	General Microbiology	6
PHYS 201, 202, 203	Intro Physics	15
BIOS 342, 343	Principles of Physiol.	6
BIOS 463 or CHEM 489 or CHEM 490, 491	Cell Chem.	4
	Intro Biochem.	7
	English composition	4

Arts and Sciences degree requirements, University General Education Requirements, and/or electives.

Because most students complete a baccalaureate degree at OU before they are accepted to their professional school, the pre-optometry student should consult the department advisor early in the freshman year for recommendations on degree requirements and electives.

Further information relative to requirements and the profession of optometry may be obtained by writing to the American Optometric Association, 243 N. Lindbergh Blvd., St. Louis MO 63141.

Preparation for Pharmacy**(Biological Sciences-Prepharmacy Major, major code #B52506)****(Chemistry-Prepharmacy Major, major code #B53313, BA3313)**

Admission to schools of pharmacy by transfer occurs after one or two years of coursework at Ohio University—some schools expect transfer after one year, others require two years of work, and others allow either option. Requirements for admission vary widely from school to school.

Students anticipating transfer to a school of pharmacy should determine as early as possible the specific admission requirements of the schools to which they may apply and plan their academic programs accordingly.

The program of courses listed below is based upon the requirements of the four pharmacy schools in Ohio, but other schools may vary in their requirements. Again it is the responsibility of the student to ensure that admission standards for particular schools are met. Students should consult their advisor for assistance.

The following prepharmacy program is not a *degree* program; degrees in pharmacy are earned upon transfer to an appropriate professional school. However, accomplishment of the following, plus additional requirements as outlined under departmental requirements, can lead to A.B. or B.S. degrees in biological sciences or chemistry at Ohio University. There is no *in absentia* arrangement for pharmacy.

Unless otherwise indicated, BIOS/MICR departmental courses may be retaken only once.

Freshman

CHEM 151, 152, 153	Fund. of Chemistry	15
MATH 263A, B, C	Analytic Geom. and Calc.	12
BIOS 170, 171, 172, 173	Intro to Zool.	14
ENG 151	Fr. Comp.: Writing and Rhet.	5
Social sciences and humanities electives.		

Sophomore

CHEM 305, 306, 307	Organic Chemistry	9
and CHEM 308, 309	Organic Chemistry Lab	6
PHYS 201, 202, 203	Intro to Physics	15
MICR 411	General Microbiology	6
BIOS 300	Anatomy and Histology	6

One additional English course.

Social sciences and humanities electives.

Preparation for Physical Therapy

Ohio University offers a unique opportunity to the prospective physical therapist. Recognized for leadership in the development of preprofessional physical therapy curricula since the 1930s, the Department of Biological Sciences and more recently, the Department of Psychology, both in the College of Arts and Sciences, work cooperatively with the School of Physical Therapy in the College of Health and Human Services.

To be eligible for admission to an accredited professional school of physical therapy, the student first must complete baccalaureate-level preprofessional preparatory coursework and then apply, on a competitive basis, to a professional school of physical therapy. If the student is accepted, the professional program would extend for an additional two to three years, culminating in a degree in physical therapy from that professional program. The optional plans of study described below will prepare the student to be highly qualified for admission to most schools of physical therapy. It is important to recognize, however, that some professional programs require special prerequisites—either courses or practical experience as a volunteer—prior to application for admission. It is the students' responsibility to check the admissions requirements for programs they wish to attend and, in consultation with the academic advisor, to fulfill any special prerequisites.

Students are encouraged to note particularly the opportunities provided by the Ohio University School of Physical Therapy. The professional program at Ohio University, currently a baccalaureate program, is designed to accept students on a competitive basis. To be eligible for physical therapy at Ohio University, three years of undergraduate preparation is required. If the student is accepted, the professional program currently extends for two more years with successful completion resulting in a B.S. degree in physical therapy from the College of Health and Human Services. (The professional program at Ohio University is in the process of elevation to a three plus three combination, culminating in an M.P.T. degree.)

At this time, students who choose to finish the entire prephysical therapy curriculum in either BIOS or PSY/prephysical therapy, including all Arts and Sciences and University requirements, and who complete the professional program at Ohio University or elsewhere, will be eligible to receive either the B.S. degree with a major in biological sciences/physical therapy or the A.B. degree in psychology/physical therapy from the College of Arts and Sciences and a B.S. degree in physical therapy from the College of Health and Human Services.

The prephysical therapy programs in the departments of Biological Sciences and Psychology are designed to provide students with the necessary academic preparation so that if accepted, they may transfer to a professional physical therapy program that requires either two or three years of baccalaureate preparation. Students not accepted into a physical therapy program may complete the prephysical therapy curriculum in BIOS or PSY, or they may request a change of major and complete the courses essential for a B.S. degree in biological sciences or an A.B. degree in psychology. In either case, the student must plan for additional courses in Arts and Sciences, including the foreign language requirement. It is possible to apply for physical therapy school at Ohio University or elsewhere during the senior, or fourth, year.

The courses listed below through the sophomore-junior years include current course recommendations for admission to the Ohio University physical therapy program. If accepted, students may enter the Ohio University program after their junior year and receive their B.S. degree from the College of Health and Human Services upon completion of the physical therapy program. (Students should note that the Ohio University program in physical therapy may become a three-year master's-level program, extending the length of time in the School of Physical Therapy from two to three years.)

For further information on the Ohio University program, application procedures, and requirements, contact the School of Physical Therapy or see the School of Physical Therapy listing in the College of Health and Human Services section of this catalog.

Biological Sciences-Prephysical Therapy (B.S.)

(Biological Sciences-Prephysical Therapy Major, major code #BS2S07)

Students who wish to apply for transfer to a professional program at the end of their sophomore or junior year will be made eligible by fulfilling the prerequisite coursework outlined below. B.S. degree prephysical therapy students majoring in biological sciences will be required to complete the entire program.

Unless otherwise indicated, BIOS/MICR departmental courses may be retaken only once.

Freshman

CHEM 151, 152, 153	Fund. of Chemistry	15
ENG 151	Freshman Comp.: Writing and Rhetoric	5
MATH 163A, B	Intro to Calculus	7
PHIL 101 or PHIL 120	Fund. of Phil. Principles of Reasoning	5 4
PHIL 130	Intro to Ethics	4
BIOS 170, 171, 172, 173	Intro to Zool.	14

Arts and Sciences degree requirements, University General Education Requirements, and/or electives.

Sophomore

CHEM 301, * 302*	Organic (short)	6
PHYS 201, 202†	Intro to Physics	10
PSY 101	General Psychology	5
PSY 121	Elem. Stats. for Behav. Sci.	5
PSY 273	Child and Adolescent	4
PT 259A	Intro to Phys. Therapy	2
SOC 101	Principles of Sociology	5
BIOS 301	Human Anatomy	6
BIOS 325*	Gen. Genetics	5
BIOS 345	Human Physiology	4
BIOS 346	Human Physiology Lab	3
BIOS 352 or BIOS 420	Biomechanics Animal Locomotion	4 4

Arts and Sciences degree requirements, University General Education Requirements, and/or electives.

Junior-Senior

MICR 211*	Environ. Microbiology	4
PSY 332	Abnormal Psych.	4
BIOS 402	Human Neuroscience	3
BIOS 445	Physiology of Exercise	5
BIOS 446	Physiology of Exercise Lab	3
BIOS 463*	Cell Chem.	4
BIOS 425 or 479 or 481	Evol. Gen.	4
	English composition	4

Arts and Sciences degree requirements, University General Education Requirements, and/or electives.

The following courses are suggested to serve as electives:

ANTH 101	Intro to Cult. Anthropology	5
ANTH 355	Med. Anthropology	4
CLNG 127	Greek and Latin Words in Eng.	4
HCFN 128	Intro to Nutrition	4
HSAT 128	Intro to Athletic Training	2
HSAT 326	Recog. and Eval. of Athletic Injuries	4

HSAT 327	Prev./Mgt. of Athletic Injuries	3
HLTH 202	Health Sci. and Lifestyle Choices	4
PHIL 231	Phil. of Sport	4
PHIL 331	Moral Problems In Med.	5
PSY 231	Psych. of Adjust.	4
PSY 275	Educational Psych.	4

*Required for a B.S. in biological sciences-prephysical therapy.

†PHYS 203 may be required for admission to certain graduate and professional schools.

Psychology-Prephysical Therapy (A.B.)

(Psychology-Prephysical Therapy Major, major code #BA4105)

This program prepares students to transfer to a physical therapy professional program after their sophomore or junior year. Students not accepted into a physical therapy program or those who wish to complete the A.B. in psychology/prephysical therapy before applying should plan sufficient time to complete the courses listed below plus additional Arts and Sciences requirements, including the A.B. degree foreign language requirement.

The following program will not prepare students to complete a degree in biological sciences. If students are not accepted into the physical therapy program, but desire to pursue a career in medicine or certain allied health fields, they should consider a major from the several programs offered in biological sciences and chemistry, or from those offered through the College of Health and Human Services.

Freshman

CHEM 121, 122, 123*	Principles of Chemistry	12
	English composition	5
MATH 163A, B	Calculus	7
PSY 101†	General Psychology	5
PSY 121†	Elementary Statistics	5
PT 259A	Intro to Phys. Therapy	2
SOC 101†	Introduction to Sociology	5
BIOS 170, 171	Introduction to Zool.	10

Arts and Sciences degree requirements, and/or electives.

Sophomore-Junior

PHYS 201, 202*	Intro to Physics	10
PSY 226	Experimental Psychology	4
PSY 273	Child and Adolescent Psychology	4
PSY 312	Physiological Psychology	4
PSY 332	Abnormal Psychology	4
BIOS 302	Human Anatomy (sophomore)	6
BIOS 345, 346	Human Physiology and Lab (sophomore)	7
BIOS 352 or HPES 302	Biomechanics Biomechanics (must be section for prephysical therapy majors)	4 4

BIOS 445, 446	Physiology of Exercise and Laboratory	7
BIOS 402	Human Neuroscience	3
PHIL 101	Fundamentals of Phil.	5
PHIL 130 I	Introduction to Ethics or PHIL 331 Moral Problems in Medicine	4
ENG 305J or ENG 308J	Technical Writing (junior) Advanced Composition (junior)	4
	Tier II (A or T area)	4-5

Arts and Sciences degree requirements, and/or electives.

Junior-Senior

PSY 374	Adulthood and Aging	4
one of:		
PSY 201	Sensation and Perception	4
PSY 203	Learning	4
PSY 304	Human Learning	4
PSY 308	Human Judgment and Decision Making	4
PSY 327	Human Psychophysiology	4
one of:		
PSY 233	Psychology of Personality	4
PSY 351	Clinical and Counseling Psychology	4
PSY 380	Psychology of Health and Illness	4
PSY 430	Psychoactive Drugs	4
one of:		
PSY 275	Educational Psychology	4
PSY 315	Behavior Genetics and Individual Differences	5
PSY 376	Psychological Disorders of Childhood	4
two of:		
PSY 261	Industrial and Organizational Psychology	4
PSY 310	Motivation	4
PSY 336	Social Psychology	4
	Tier III (senior)	4-5

Arts and Sciences degree requirements, major courses, and/or electives.

*The 120 chemistry sequence is usually sufficient for physical therapy programs. Other biomedical and allied health areas may require the 150 chemistry sequence. The regular psychology major does not require chemistry.

†Students completing the A.B. in psychology-prephysical therapy and planning to start college-level foreign language with a course beyond 111 are advised to begin foreign language in the freshman year and to complete PSY 101, PSY 121, and/or SOC 101 in the sophomore year. Students starting foreign language with 111 should begin language courses no later than the junior year.

‡PHYS 203 may be required for admission to certain graduate and professional schools of physical therapy.

Political Communication Certificate Program

The colleges of Arts and Sciences and Communication jointly sponsor the undergraduate Political Communication Certificate Program for students in any major program within the University who want to gain knowledge and understanding about the arena of political communication. Political communication encompasses the interactions of political figures, political interests, the press, and the public in their attempts to shape political decisions. Completion of this program is officially recognized on the student's transcript upon graduation, and a certificate is awarded.

See the Courses of Instruction section of this catalog for the Political Communication Program requirements.

Preparation for Public Administration

(Political Science-Public Administration Major, major code #BA4200)

The interdisciplinary program in public administration is designed to provide broad training in preparation for a career with local, state, or federal government in the areas of budgeting, personnel administration, intergovernmental relations, program planning and evaluation, and in general administration.

Students in the program must meet general requirements for the Bachelor of Arts degree and the requirements for a major in political science in the College of Arts and Sciences. Students also should be careful to meet the prerequisites for all courses. Students are encouraged to gain as broad an understanding of politics as political science majors, since politics is a crucial element in public administration.

For further information and advice, please consult the public administration advisor in the Department of Political Science, Bentley Hall 222.

The following are required for the preparation for public administration:

ECON 103	Microeconomics
ECON 104	Macroeconomics
MIS 100	Intro to Computers
PSY 121	Elementary Statistics for the Behavioral Sciences
or QBA 201 or POLS 482	Intro to Business Statistics
POLS 101	Quant. Political Analysis
	American National Government
POLS 102	Issues in American Politics
POLS 210	Public Administration
POLS 304 or POLS 320	State Politics
	Urban Politics

In addition, take any five of the following:

POLS 310	American Domestic Policy
POLS 314	Organizational Theory and Politics
POLS 486	Public Budgeting
POLS 487	Financial Management in Government
POLS 408	Urban Public Admin.
POLS 410	Public Policy Analysis
POLS 412	Public Personnel Admin.
POLS 413	Administrative Law
POLS 424	Intergovernmental Relations in the U.S.
POLS 425	Environ. and Nat. Res. Politics and Policy
POLS 429	Comparative Public Admin.
POLS 484	Management Skills for Pub. Admin.
POLS 490E	Public Dispute Resolution
POLS 490U	Comparative Public Policy
POLS 490V	Public Policy and Business

In addition to the courses outlined above, the student must select additional courses in political science to satisfy the requirement for a political science major. The major consists of a total of at least 45 hours in political science, including at least one course from two of the following three areas: comparative politics, international relations, and political theory.

It is also recommended that students select additional coursework from the following:

ACCT 201	Financial Accounting
ACCT 202	Managerial Accounting
ECON 325	Public Policy Economics
ECON 430	Public Finance
FIN 325	Managerial Finance
GEOG 201	Environmental Geography
GEOG 326	Urban Geography
GEOG 350	Land Use Planning
POLS 409	Criminal Procedure
POLS 495	Internship
SOC 430	Sociology of Organizations

Preparation for Theology and Religion**(English-Pretheology Major, major code #BA5233)****(History-Pretheology Major, major code #BA4213)****(Philosophy-Pretheology Major, major code #BA5242)**

It is recommended that a student planning to enter a theological seminary or to do graduate study in religion take a broad program of undergraduate courses including the following (with minimal quarter hours of credit suggested in each area): philosophy (12); courses on the texts and history of religions (15); English composition and literature, and world literature (21); history, including HIST 354, 356C, and 370 (15); social sciences (21); foreign languages (18); natural sciences (9); public speaking (3). The course program should be arranged to meet the requirements of the Bachelor of

Arts degree and the University General Education Requirements.

It is advisable to major in philosophy, English, or one of the social sciences. Students also should check the entrance requirements of the theological seminaries, other religious educational institutions, or graduate schools of their choice and plan their curricula accordingly.

Preparation for Urban and Regional Planning (A.B. or B.S)**(Geography-Urban Planning Major, major code #B54234, BA4234)**

This special curriculum is designed to provide some of the basic academic requirements for students considering careers in urban planning in the United States. While working toward a conventional Bachelor of Science in geography, students take certain required courses and select from an approved list of electives both inside and outside the Department of Geography that emphasize legal, social, political, and historical aspects of the planning profession. These courses simultaneously fulfill some of the department and college requirements. The distinctiveness of the curriculum comes from the direction given the student and the preselection of courses in which the student may enroll; it is this which separates this special curriculum from the general geography program. Students entering the course of study must abide by the regulations of the College of Arts and Sciences pertaining to undergraduate degrees. These regulations include a minimum of 192 credit hours; requirements concerning the geography major, English composition, and foreign language; level of study; and area requirements in humanities, social sciences, and natural sciences. Students wishing to enroll in the preparation for urban and regional planning major should contact the chair of the Department of Geography as soon as possible, preferably not later than the beginning of their sophomore year.

The majority of job opportunities for planners are with government agencies at the local, state, and federal levels. Their activities largely concern administration and implementation of federal programs, and continued funding depends upon the Congress. Whereas a bachelor's degree can provide initial entry into the planning profession, job descriptions usually specify a master's degree, and it is recommended that students continue toward such a degree, involving an additional two years of study, offered by more than 70 American universities.

Core Curriculum**Geography major requirements with these specifications:****Hours over 300 must include:**

326	Urban Geography	4
350	Land Use Planning	4
353	Environmental Planning	4
360	Map Making	5
455	Evolution of Planning	4

Choice of one from this list:

365	Remote Sensing I	5
468	Automated Cartography	5
478	Geographic Information Systems	5

Complete the following:

GEOL 101	Intro to Geol.	5
GEOL 251	Water and Pollution	4
GEOL 330	Prin. of Geomorph.	5

Other Departments (17 hrs)

These courses currently fulfill the social sciences area requirement of the College of Arts and Sciences.

ECON103	Principles of Microeconomics	4
ECON 104	Principles of Macroeconomics	4
MGT 300	Management	4
POLS 320	Urban Politics	4

*The student and advisor should devise a plan which accounts for the University General Education Requirements.

Electives

Completion of the above requirements leaves 65 credit hours to be taken to fulfill the 192 credit hours necessary for graduation. The student should try to take these from among the following:

BUSL 370	Environ. Law	4
BUSL 442	Law of Property and Real Estate	4
ECON 213	Current Econ. Prob.	4
ECON 301	Intro to Econ. Analysis	4
ECON 302	Intro to Econ. Analysis	4
ECON 303	Microecon.	4
ECON 304	Macroecon.	4
ECON 310	Urban Econ.	4
ECON 356	Regional Devel.	4
ECON 360	Money and Banking	4
HIST 317A	Ohio Hist. to 1851	4
HIST 317B	Ohio Hist. Since 1851	4
POLS 101	Amer. Nat. Govt.	4
POLS 102	Issues in Amer. Politics	4
POLS 210	Principles of Public Administration	4
POLS 410	Public Policy	4
POLS 424	Intergovernmental Relations	4
POLS 425	Environ. and Nat. Resource Politics and Policy	4
PSY 335	Environ. Psychology	5
SOC 101	Intro to Soc.	5
SOC 201	Contemp. Social Prob.	4
SOC 230	Soc. of Poverty	4
SOC 424	Urban Soc.	4
SOC 425	Soc. of Aging	4
SW 101	Intro to Soc. Welfare and Social Work	3
SW 290	Amer. Social Welfare System	4
SW 391	Soc. Sec. System	4
SW 392	Contemp. Am. Soc. Services	4
SW 395	Aging in the Welfare State	4

Outside the College of Arts and Sciences

EH 310	Water Supply and Wastewater Environ. Health Practice	4
EH 312	Solid and Hazardous Waste Management	4
EH 320	Shelter Environments	4
HREC 310	Prog. Planning and Facil. for Recreation	5
INCO 205	Group Discussions	4
INCO 404	Prin. and Tech. of Interviewing	4
REAL 101	Real Estate Prin. and Prac.	4
REAL 201	Real Estate Appraising	4
REAL 204	Real Estate Fin.	4

Additional coursework in civil engineering (415, 451, 452), plant sciences (101, 101H, 102, 103, 311), microbiology (211, 212), biological sciences (390H), and economics is recommended as elective courses to be taken in the senior year.

Preparation for Veterinary Medicine (B.S.)**(Biological Sciences-Preveterinary Medicine Major, major code #BS2508)**

Early in his or her college career, the preveterinary medicine student should become familiar with the entrance requirements of the veterinary schools of his or her choice. Many of the biological sciences majors, as well as the accredited major in microbiology, are suitable for those considering veterinary school. Discussion of course selection with the student's academic advisor is strongly encouraged.

Many schools of veterinary medicine require a bachelor's degree for admission. A standardized test (MCAT, GRE, or VAT) must be taken at least one year before the student expects to enroll in veterinary school. Students should contact the veterinary schools of their choice or see their advisor to determine which standardized test must be taken.

Preveterinary medicine students must meet the Arts and Sciences and University requirements and the requirements of the general biological sciences major (see Courses of Instruction section for requirements), and these requirements will fulfill prerequisites of most veterinary schools. Please note that, unless otherwise indicated, BIOS/MICR departmental courses may be retaken only once. Of the core requirements listed in the Courses of Instruction section, the following are *strongly* recommended for preveterinary medicine students:

Area	Recommended Choice
Anatomy	BIOS 303 Comparative Vertebrate Anatomy
Physiology	BIOS 342, 343 Principles of Physiology
Other Biol. Sci.	MICR 411

Recommended electives are:

MICR 414A	Animal Virology	3
MICR 415	Immunology	6
or MICR 417	Cellular Immunology	4
BIOS 406	Vertebrate Embryology	6
BIOS 441	Parasitology	6
BIOS 448	Cell Physiology	4
BIOS 450	Principles of Endocrinology	4
BIOS 452	Reproductive Physiology	3
BIOS 460	Animal Physiology	4

Preparation for Water Resources (B.S.)

(Geological Sciences-Water Resources Major, major code #BS3322)

This curriculum is recommended for students who wish to specialize in the investigation of surface water and groundwater supplies. The student entering the program majors in geology as a B.S. degree candidate and takes additional coursework in mathematics, chemistry, and physics. Graduates of the program are qualified to seek professional employment in hydrogeology or to enter graduate school for additional training.

Students should enter the program as freshmen to complete the required curriculum in four years.

Freshman

CHEM 151	Fund. of Chemistry	5
CHEM 152	Fund. of Chemistry	5
CHEM 153	Fund. of Chemistry	5
GEOL 101	Intro to Geol.	5
MATH 263A, B, C, D	Analytic Geom. and Calc.	16
	English composition	5

Arts and Sciences degree requirements (including language), University General Education Requirements, and/or electives.

Sophomore

GEOL 315	Mineralogy	4
GEOL 320	Rocks	3
GEOL 330	Prin. of Geomorph.	5
GEOL 350	Stratigraphy-Sedimentology	4
MATH 340	Diff. Equations	4
PHYS 251, 252, 253	Gen. Phys.	15

Junior

CS 321	Computing for Engineers and Scientists	5
ENG 305J	Technical Writing	4
GEOL 360	Struct. Geol.	5
GEOL 480	Hydrogeology I	4
GEOL 481	Hydrogeology II	4
GEOL 483 (6) is to be taken during the summer following the third or fourth year.		
MICR 211	Environmental Microbiology	4
MICR 212	Environmental Microbiology Lab	2

Arts and Sciences degree requirements (including language), University General Education Requirements, and/or electives.

Senior

CHEM 301	Organic Chemistry	3
CHEM 302	Organic Chemistry	3
GEOL 476	Subsurface Methods	4
GEOL 482	Groundwater Motion	4

Arts and Sciences degree requirements (including language), University General Education Requirements, and/or electives.

Preparation for Wildlife Biology (B.S.)

(Biological Sciences-Wildlife Biology Major, major code #BS2515)

The Department of Biological Sciences provides a program for undergraduate students in biological sciences who are interested in careers in the conservation and biology of wildlife. Graduates of this program will meet the course qualifications for state and federal civil service registers as ecologist, wildlife biologist, wildlife refuge manager, zoologist, and general biologist. This program also provides undergraduate training for students planning to go on to graduate school in wildlife biology or an allied discipline such as mammalogy, ornithology, or animal ecology.

Unless otherwise indicated, BIOS/MICR departmental courses may be retaken only once.

Freshman

PBIO 111	Intro to Bot.	6
CHEM 151, 152, 153	Fund. of Chem.	15
MATH 163A, B	Intro to Calc.	7
PSY 121	Elem. Stat.	5
BIOS 170, 171, 172, 173	Intro to Zool.	14
	English composition	5

Arts and Sciences degree requirements, University General Education Requirements, and/or electives.

Sophomore

CHEM 301, 302	Organic Chem.	6
PHYS 201, 202*	Intro to Phys.	10
BIOS 275	Animal Ecology	4
BIOS 303	Comp. Vert. Anat.	6
BIOS 325	Genetics	5
BIOS 376	Field Ecology Lab	4

Arts and Sciences degree requirements, University General Education Requirements, and/or electives.

Junior-Senior

	English composition	4
BIOS 342, 343	Principles Physiol.	6
BIOS 479	Evolution	4

1 A minimum of 16 hours in wildlife subjects selected from the following:

BIOS 471	Ornithology	5
BIOS 474	Mammalogy	6
BIOS 477	Population Ecology	4
BIOS 478	Community Ecol.	4
BIOS 481	Animal Conservation Biol.	4
BIOS 482	Wildlife Topics	2

2 A minimum of 14 hours in plant sciences (PBIO major courses only), including PBIO 111.

3 Students planning to go on to graduate school should take BIOS 485 or BIOS 485H, Undergraduate Research.

*PHYS 203 may be required for admission to certain graduate and professional schools.

Women's Studies Certificate Program

This program is available as an option in any baccalaureate degree program offered by the University, regardless of the college in which the student is enrolled.

See the Courses of Instruction section of this catalog for the Women's Studies Certificate Program requirements.

College of Business Administration

C. Aaron Kelley,
Dean

Frank J. Barone,
Associate Dean

Stephen B. Hyle,
Assistant Dean

The College of Business Administration (CBA) seeks to prepare men and women for professional careers in business, government, and nonprofit organizations. Consistent with its mission, the college provides a base of liberal education needed by all educated persons in our society, business-oriented instruction in professional fields, and a close association with other colleges to promote knowledge and understanding from a variety of sources.

Business instruction and research revolve around three themes: preparing the manager for a variety of business activities; developing analytical skills; and fostering a critical awareness of the social, political, and economic environment in which decisions are made.

The academic departments offer major fields of study in accounting, business law, finance, general business, human resource management, international business, management, management information systems, marketing, operations, and small business entrepreneurship. A major in business economics is also available.

The College of Business Administration has been a fully accredited member of the American Assembly of Collegiate Schools of Business since 1950.

Advisory Committees

The Executive Advisory Board of the College of Business Administration, the formal external arm of the college, serves as a representative of the business community at large. The board is a group of professionals, managers, and executives who review and advise the college on activities necessary to accomplish college missions from the perspective of the business community. The board meets with the dean, faculty, and students twice a year to give advice on college programs. Members are often on campus to speak to student organizations or classes and to participate in special college programs. The board is extremely helpful to the college's continuing efforts to maintain excellence in education for future business leaders.

The Society of Alumni and Friends of the College of Business Administration, made up of graduates, friends, and former students of the college, functions as the alumni relations arm of the college. Since 1982 this society has provided innovative and meaningful alumni involvement in sponsorship, planning and support, alumni awards, recruitment, etc. The 12-member board of directors of the society formally meets on the Athens campus twice a year and initiates yearly alumni receptions in many other cities.

Honorary and Professional Organizations

The College of Business Administration seeks to improve the quality of its programs and provide educational development opportunities for its student through its honorary and professional organizations.

Beta Gamma Sigma, the national scholarship society founded in 1913 to encourage and reward scholarship and accomplishment among students of business administration, has an active chapter at Ohio University. Beta Alpha Psi is a national accounting honorary which elects its members on the basis of scholastic achievement in accountancy courses.

Students also are encouraged to participate in student professional organizations, including Alpha Kappa Psi, a professional business fraternity; Alpha Upsilon chapter of Delta Sigma Pi, a professional business fraternity; Phi Alpha Delta, a national pre-law fraternity; Phi Gamma Nu, a professional business fraternity; the Accounting Club; the American Marketing Association; the Association of Collegiate Entrepreneurs; the Black Students Business Caucus; the Financial Management Society; the International Business Society; the Management Information Systems Club; the Management Science Society; the Society for Advancement of Management; the Society for Human Resource Management; and the M.B.A. Student Association.

Experiential Educational Programs

In addition to broad academic training through the B.B.A. degree program, CBA students can acquire professional experience through the Experiential Education Program, designed to benefit both students and sponsoring organizations through internships and cooperative education positions. Participating students have the opportunity to supplement their classroom learning with actual business experience. The sponsoring organization gains an additional staff person and the chance to evaluate the student's potential for future full-time permanent employment. To be eligible for internship positions, students must have at least a 2.5 grade-point average (g.p.a.), must have completed 128 quarter credit hours, and must have completed at least one course in their major beyond the core. To be eligible for co-op positions, students must have completed their freshman year of study and be in good academic standing.

Cooperative education students work for an employer a minimum of two separate times before graduation. Interns will typically work one quarter for an employer. Additional information concerning programs and sponsoring organizations is available from the director of Experiential Education Programs in the CBA.

Study Abroad

The College of Business Administration offers study abroad opportunities in several international locations. This year a Study Abroad Fellowship Program at the University of Manchester in Manchester, England, is being offered for five weeks during the summer and includes three summer study courses that may apply to our degree program. Students also travel to France, Belgium, and Russia.

A European Study Program in Western Europe will be offered for ten to fourteen days during the break between fall and winter quarters. The curriculum will include a study of European business development and environment for members of the college's International Business Society.

An Institute for Global Competitiveness, through Janus Pannonius University in Pecs, Hungary, will be offered for six weeks during the summer and will include 10-12 credit hours from various courses in business administration. A highlight includes an internship with a Hungarian company.

For information on these programs, contact Richard C. Scamehorn, Haning Hall 16C, telephone 614-593-2025.

Students also may receive credit for overseas programs offered by Ohio University's Study Abroad Program or other U.S. colleges after making arrangements with their academic advisor and the CBA Office of Undergraduate Programs.

International Exchange Programs

The College of Business Administration has developed exchange programs with two business universities in France termed *Ecole Superieure de Commerce (Sup de Co)*:

Sup de Co-Rennes and *Sup de Co-Clermont*. Ohio University students at the junior or senior level may spend a year (two semesters) or only one semester at either *Sup de Co* and receive credit for core and elective business courses in the Ohio University curriculum.

Language requirements do vary, as many courses are taught in English depending on the university attended and on the courses the student needs to complete.

Tuition is paid directly to Ohio University at current tuition rates. Living costs (travel, room, board, books, insurance, personal needs, etc.) are paid by the student while living abroad.

The College of Business Administration also has informal exchange agreements with universities in Germany, Hungary, Malaysia, and Thailand. These programs require competence in the language of the country.

For further information on these programs, contact Dr. Frank Barone, Associate Dean, Haning Hall 101, telephone 614-593-2080.

Entrepreneurship Program

The Entrepreneurship Program has developed an integrated program of instruction and supporting activities designed to encourage knowledge and practice of entrepreneurship. Using the special strengths of the College of Business Administration, the program focuses particularly upon the situational contingencies of new venture creation in southeastern Ohio and the surrounding region.

Courses for the Entrepreneurship Program are offered in several departments. A list of courses which are scheduled for the current academic year may be obtained from the director of the Entrepreneurship Program, Haning Hall 121, telephone 614-593-2074.

At the present time the Entrepreneurship Program is a supplement to other majors and is open to any student who has the prerequisites to take the courses offered. A Certificate of Entrepreneurship will be awarded to students who follow the prescribed sequence of courses.

In the future, a major in entrepreneurship will be offered that will add practical experience to the academic study of entrepreneurship. The certificate will focus only on the academic study of entrepreneurship.

The Entrepreneurship Program is supported by, and brings to campus a number of, successful entrepreneurs, many of whom are Ohio University alumni.

Bachelor of Business Administration

A candidate for the Bachelor of Business Administration (B.B.A.) degree must complete the University's General Education Requirements for graduation and fulfill a minimum of 192 quarter hours' credit with a g.p.a. of 2.0 (C) average on all hours attempted. This 2.0 (C) g.p.a. requirement applies to courses taken in business and economics, and also to courses in the student's major. The College of Business Administration limits transfer credit for required business courses taken at a lower level to such courses as it offers at that lower level. Other transfer credits accepted by the University are evaluated as either business or nonbusiness electives.

Courses included in the 192-hour minimum for the B.B.A. degree must be chosen so that at least 79 quarter hours are earned in areas of business and economics and at least 96 quarter hours are earned in nonbusiness areas. However, eight hours of economics principles may be counted in either minimum. Among the nonbusiness courses, a student must complete INCO 103, MATH 163A, MATH 250B, and at least six quarter hours in each of three broad areas: humanities, natural sciences, and social sciences. Students majoring in accounting are required to complete more than six hours in the humanities, natural sciences, and social sciences areas. Only three quarter hours of activity-type courses in the areas of health, physical education, and recreation are acceptable within the 192 hours of credit toward the B.B.A. degree. **A minimum of 48 credit hours must be completed after admission to the college in order to meet the college's residency requirement.**

Minors

Students outside the CBA who wish to complete a business minor may do so by completing 36 credit hours of the following:

Required Courses	Hours
ACCT 201 and ACCT 202	8
BUSL 255	4
QBA 201 or PSY 121 or ECON 381 or INCO 301 or GEOG 271	4-5
	16

Three of the following five courses:

FIN 325, MGT 200 or 300, MIS 300, MKT 301, OPN 310	12
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Two additional courses taken from the five courses listed above or two advanced courses in ACCT, BA, BUSL, FIN, HRM, MGT, MIS, MKT, OPN, or QBA

8

Total	36
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CBA students may elect to complete minors offered by other areas within the University by completing the requirements established by that area.

Due to accreditation standards, students outside the CBA will be allowed to complete only 44 hours of courses in the business curriculum.

Enrollment Policies

Freshman Policy

Freshmen will be admitted into the College of Business Administration on a selective basis. Normally, applicants will need to be in the top 20 percent of their high school class with a strong college preparatory curriculum. They are expected to have

above-average scores on ACT or SAT tests, and also have demonstrated leadership potential through participation in extracurricular activities and/or work experience. Members of groups who are historically underrepresented in business will receive special consideration.

Transfer Policy

A limited number of students from other colleges within Ohio University and students from other institutions of higher education will be permitted to transfer to the College of Business Administration. Applications for transfer are available from the CBA.

Any student contemplating transfer to the college is strongly encouraged to contact the CBA Office of Undergraduate Programs as early as possible. Students must be enrolled in the CBA prior to their senior year to allow for the college's 48-hour residency requirement. At least 50 percent of the business credit hours required for the business degree must be earned at Ohio University. To be considered for transfer, applicants must have completed INCO 103, ECON 103, ECON 104, MATH 163A, and ENG 151 or 152 or 153, or equivalent courses and have an accumulative g.p.a. of 3.0 or higher. In calculating the g.p.a., grades from all courses taken at Ohio University and from all colleges or universities attended will be used.

Students cannot be guaranteed admission even though they meet the above criteria. The College Admissions Committee will admit transfer students up to the college's enrollment ceiling. Those students judged to have the highest probability of success will be admitted. Members of groups who are historically underrepresented in business will receive special consideration.

Applications for admission to the college should be submitted to the CBA Office of Undergraduate Programs no later than the close of the fifth week of any quarter. The College Admissions Committee will evaluate applications during the second half of that quarter. Students approved for admission will officially transfer to the CBA at the beginning of the subsequent quarter.

Students transferring from other universities must process the standard documents required by the Office of Admissions, as well as the application for the CBA. All applicants will be notified at the earliest opportunity of the admission decision.

Academic Probation and Dismissal

In addition to the University probation and drop regulations listed in the Academic Policies and Procedures section of this catalog, the CBA has established probation and drop regulations within the college.

Preprofessional Core

Students must complete the preprofessional core with an accumulative g.p.a. of 2.0 by the time they have earned 90 hours of credit. Students who do not meet these requirements may be given one quarter's probation to achieve the standard. If at the end of the probationary quarter a student has not fulfilled the requirement, he or she will be dropped from the college. Transfer students who have completed 90 hours or more before entering the CBA will be given two quarters to complete the preprofessional core before being put on probation. Preprofessional core courses include ENG 151 or 152 or 153, INCO 103, MATH 163A, MATH 250B, ACCT 201, ACCT 202, BUSL 255, MIS 100, ECON 103, ECON 104, and QBA 201.

Retaking a Course

Students will be limited to three attempts at all CBA core courses. Students who have attempted one of these courses a second time will be notified that they are allowed only three attempts. A student who has made three unsuccessful attempts at a required core course will be notified that he or she has been dropped from the college.

To attempt a course is to be enrolled long enough for the course to appear on the transcript or grade report. A letter grade, WP, WF, or grade replacement counts as an attempt. Attempts at another institution will count toward the limit if the course is taken as a transient student after enrollment in the College of Business Administration at Ohio University.

CBA core courses include ACCT 201, ACCT 202, ECON 103, ECON 104, MIS 100, QBA 201, BUSL 255, ECON 305, FIN 325, MGT 300, MGT 325J, MIS 300, MKT 301, OPN 310, and BA 470.

Curriculum

All candidates for the B.B.A. degree must complete a core of courses covering a common body of knowledge in the tools of analysis and the operational fields of business plus a concentration in the major area. Only the preprofessional core courses may be taken, as indicated below, during the freshman and sophomore years. This allows the student (1) to acquire an early foundation in the basic arts and sciences before specializing in business during the junior and senior years; and (2) the flexibility to choose alternative fields of study in cases of interest change. The recommended sequencing of courses is:

Freshman

ECON 103, 104	Prin.	8
INCO 103	Pub. Speaking	4
MATH 163A	Intro to Calculus	4
MIS 100	Intro to Microcomputers	3
	Humanities* (minimum)	6
	Natural sciences* (minimum)	6
	Social sciences* (minimum)	6
	Electives	11

*Accounting majors must complete 12 hours of humanities, 16 hours of social sciences, 8 hours of natural sciences, 12 hours of communications.

Sophomore

ACCT 201	Financial Acct.	4
ACCT 202	Managerial Acct.	4
BUSL 255	Law and Society	4
MATH 250B	Finite	4
QBA 201	Intro to Probabilities and Stat.	4
	Electives	28

Junior

ECON 305	Managerial Econ.	4
FIN 325	Managerial Finance	4
MGT 300	Mgt.	4
MGT 325J	Business Communication	4
MIS 300	Bus. Information Systems	4
MKT 301	Mkt. Prin.	4
OPN 310	Principles of Operations	4
	Major courses and electives	20

Senior

BA 470	Administrative Policy	4
	Major courses and electives	44

Note: for pass/fail option see the Academic Policies and Procedures section of this catalog.

Major-Area of Concentration

Each candidate for the B.B.A. degree must designate a major or area of concentration and complete the courses required by the department offering the major. The majors are listed below. The course requirements for each major are indicated in this section.

Accounting	General Business	Management
Business Economics	Human Resource	Information Systems
Business Prelaw	Management	Marketing
Finance	International Business	Operations
	Management	Small Business
		Entrepreneurship

Preparation for Law School

A student in the College of Business Administration who plans to enter law school should follow the Bachelor of Business Administration degree curriculum and also elect, with the approval of his or her advisor, courses in other fields, especially American government, American and English history, English, philosophy, interpersonal communication, and additional theory courses in the College of Arts and Sciences, except those that substantially duplicate material found in the typical law school curriculum.

The Ohio Supreme Court's regulations governing the admission to the practice of law in Ohio provide that a student entering law school must be able to show possession of an undergraduate degree from an approved college if he or she wishes to take the Ohio Bar Examination. However, the Ohio Supreme Court provides for one possible exception to the preceding regulation—if a person has earned, subsequent to graduation from law school, a bachelor's degree through completion of courses and credits other than those received in law school, and has made a record of academic achievement which is satisfactory to the Ohio Supreme Court, such a person may, in the court's decision, be permitted to apply for admission to the practice of law in Ohio. Law schools in the state of Ohio have supplemented this Supreme Court rule by requiring an undergraduate degree of all entering students, regardless of the state in which they plan to take the bar examination.

For the benefit of those students who do not plan to take the Ohio Bar Examination and who do not plan to seek admission to an Ohio law school, a degree *in absentia* program is available as described below.

A student who desires to (1) enter, at the end of three years of college work, a school of law located outside Ohio and (2) receive the Bachelor of Business Administration degree from Ohio University after completing the first year in law school may do so, provided the following conditions are met: the student has the written approval of the dean of the College of Business Administration; a minimum of 144 quarter hours, including the required courses in the Bachelor of Business Administration degree curriculum (BUSL 255 excluded), are completed with a g.p.a. of 2.0 on all hours attempted; a full year's work in an accredited law school is completed with an average equivalent to that prescribed for the bachelor's degree at Ohio University; and the student is eligible for advancement without condition to the second year.

If there is any possibility that a student might wish to take the Ohio Bar Examination, he or she is urged to obtain the undergraduate degree before entering the law school.

The Accounting Major

(Major code #BB6121)

The overall mission of the School of Accountancy is to provide a superior education to a select group of students to prepare those men and women for successful careers in the accounting profession. We believe the following educational requirements necessary to enter the major areas of the accounting profession:

A broad general education emphasizing the humanities, social sciences, and natural sciences.

An emphasis on ethics, critical thinking, and international awareness.

A broad knowledge of business concepts and practices.

Strong interpersonal and communication skills.

An understanding of accounting and reporting processes.

Basic skills in designing accounting information systems and using accounting data for decisions in business, government, and nonprofit organizations.

Computer skills and exposure to current information technology.

An understanding of personal and corporate income taxation.

Program Requirements

Accounting majors are required to complete the College of Business Administration core curriculum, the University Tier Requirements, and School of Accountancy general education and major course requirements. To continue in an accounting major, students must achieve at least a 2.5 average in the first four accounting courses (ACCT 201, ACCT 202, ACCT 217, and ACCT 303) and must receive at least a C- in ACCT 303.

Major courses required of all accounting majors are:

ACCT 217	Introduction to Taxation
ACCT 303	Intermediate Accounting I
ACCT 304	Intermediate Accounting II
ACCT 305	Intermediate Accounting III
ACCT 310	Cost Accounting
ACCT 317	Federal Income Taxes
ACCT 345	Accounting Systems and Internal Control
ACCT 406	Advanced Accounting
ACCT 451	Auditing Principles
BUSL 357	Law of Commercial Transactions

The nonbusiness hours required of all CBA students include six hours in each of three categories: humanities, social sciences, and natural sciences. The hours required of accounting majors in these categories are 12 hours of humanities, 16 hours of social sciences, and 8 hours of natural sciences. English 151, 152, 153, 153A, and 153B cannot be counted toward the humanities for accounting students. Within these accounting requirements, one course must be completed in each of the following areas: philosophy (in either ethics, logic, or philosophy of science), literature, political science, and history. Each student must also develop an area of concentration or depth by taking at least 12 hours within a single department in humanities, social sciences, and natural sciences.

In addition, accounting majors have a communication requirement that can be completed by either of two options:

1 Twelve quarter hours of a foreign language. The foreign language option may be satisfied by taking the 211-212-213 sequence of courses of a language taken in high school, or by taking the 111-112-113 sequence of courses in another language.

2 Eight quarter hours chosen from interpersonal communications (except INCO 103) plus Journalism 133.

Freshmen who wish to develop strengths in alternative areas or transfer students who can demonstrate alternative strengths are invited to petition the School of Accountancy to substitute these strengths within the accounting major's general education requirements.

Suggested Course Sequence

Freshman Fall

ENG 151	Freshman Comp. Writing and Rhet.	5
MIS 100	Intro to Microcomputers	3
	General Education	8

Winter

MATH 163A	Intro to Calculus	4
ECON 103	Principles of Micro-economics	4
	General Education	8

Spring

INCO 103	Fund. of Public Speaking	4
ECON 104	Principles of Macro-economics	4
	General Education	8

Sophomore Fall

ACCT 201	Financial Accounting	4
MATH 250B	Finite Mathematics	4
	General Education	8

Winter

ACCT 202	Managerial Accounting	4
QBA 201	Intro to Business Statistics	4
	General Education	8

Spring

ACCT 217	Intro to Taxation	4
BUSL 255	Law and Society	4
	General Education	8

Junior Fall

ACCT 303	Intermediate Accounting I	4
MGT 300	Management	4
MGT 325J	Business Communications	4
	General Education	4

Winter

ACCT 304	Intermediate Accounting II	4
ACCT 317	Federal Income Taxes	4
MKT 301	Marketing Principles	4
	General Education	4

Spring

ACCT 305	Intermediate Accounting III	4
FIN 325	Managerial Finance	4
OPN 310	Principles of Operations	4
	General Education	4

**Senior
Fall**

ACCT 34S	Accounting Systems and Internal Control	4
ACCT 4S1	Auditing Principles	4
ECON 30S	Managerial Economics	4
	General Education	4

Winter

ACCT 310	Cost Accounting	4
ACCT 406	Advanced Accounting	4
MIS 300	Business Information Systems	4
	Elective	4

Spring

BA 470	Administrative Policy	4
BUSL 3S7	Law of Commercial Transactions	
	Electives	8

Business Economics Major**(Major code #BB6124)**

The B.B.A business economics major, designed to provide a broad business background, is intended for those who plan careers in business and economic research for both private firms and government, in banking, and in marketing analysis. It also is an important component for business management, law, operations, and financial analysis.

Suggested Course Sequence**Freshman
Fall**

ECON 103	Prin.	4
MIS 100	Intro to Microcomputers	3
	Humanities	4
	Natural sciences	4

Winter

ECON 104	Prin.	4
MATH 163A	Intro to Calculus	4
	Natural sciences	4
	Social sciences	4

Spring

INCO 103	Public Speaking	4
	Humanities	4
	Social Sciences	4
	Elective	4

**Sophomore
Fall**

BUSL 2S5	Law and Society	4
MATH 250B	Finite Math	4
	Electives	8

Winter

ACCT 201	Financial Acct.	4
QBA 201	Intro to Prob. and Stat.	4
	Electives	8

Spring

ACCT 202	Managerial Acct.	4
	CBA elective	4
	Elective	4

**Junior
Fall**

ECON 304	Macroecon.	4
FIN 32S	Managerial Finance	4
MGT 32SJ	Business Communication	4
	Elective	4

Winter

ECON 30S	Managerial Econ.	4
MGT 300	Management	4
MIS 300	Bus. Information Systems	4
	Economics elective	4

Spring

ECON 38S	Intro Econ. Method and Res.	4
MKT 301	Mkt. Prin.	4
OPN 310	Principles of Operations	4
	Elective	4

**Senior
Fall**

BA 470	Administrative Policy	4
	Economics elective	4
	Electives	8

Winter

Economics elective	4
Electives	12

Spring

Electives	16
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Business Prelaw Major**(Major code #BB6120)**

It should be recognized that law schools do not prescribe any rigid undergraduate curriculum. A very substantial number of prelaw students, however, do choose one of the business fields of study as their major field for the baccalaureate degree. They may wish to combine the business prelaw major along with one of the other majors in the College of Business Administration if the profession of law is their ultimate career goal.

The business prelaw major recognizes the business and economic emphasis of the practice of law and also provides the breadth of training and philosophical background that is conducive to success in law school.

Students majoring in business prelaw must complete the requirements for the business prelaw major in conjunction with the requirements for one of the other CBA majors, which include accounting, business economics, finance, general business, human resource management, management, management information systems, marketing, and operations. In addition to following the requirements of one of the other majors in the College of Business Administration, students must complete 16 hours at the 300-400 level, including BUSL 3S6 and four additional hours in business law beyond 3S6 as selected by the student with the approval of his or her prelaw major advisor. A further eight hours should be selected from the following: ACCT 217 (Introduction to Taxation), ACCT 317 (Federal Income Taxes), ECON 430 (Public Finance), HRM 42S (Labor Relations), POLS 401 and 402 (Constitutional Law), POLS

409 (Law Enforcement), POLS 304 (State Politics), POLS 374 (Great Jurists), POLS 413 (Administrative Law), FIN 331 (Insurance), and FIN 341 (Investments). Students may also request from their business prelaw advisors written permission to substitute a course different from those listed above. With their advisor's approval, students should elect additional courses in nonbusiness fields, especially American government, American and English history, English, philosophy, interpersonal communication, and in such business fields as finance.

The law faculty in the College of Business Administration is prepared to assist prelaw students in a number of ways:

- 1 Several departmental faculty members give extensive time to counseling students regarding selection of courses, the Law School Admission Test, law school application procedures, and other matters of importance to prelegal education.
- 2 Law School Admission Test (LSAT) and Law School Data Assembly Service (LSDAS) information is available from the prelaw advisor.
- 3 The department maintains ties with the Criminal Justice Program administered by the University College.
- 4 The department maintains ties with faculty and staff at various law schools in the country.

Suggested Course Sequence

Following is a suggested program of study for the business prelaw major using management as the business major selected. **This sequence will need to be modified if other business majors are chosen.**

**Freshman
Fall**

ECON 103	Prin. of Econ.	4
ENG 151	Freshman Comp.: Writing and Rhet.	5
	Social sciences requirement	2-5
	Elective (MATH 113 unless math background is strong)	5

Winter

ECON 104	Prin. of Econ.	4
INCO 103	Pub. Speaking	4
MATH 163A	Intro to Calculus	4
	Humanities requirement	4

Spring

	Humanities requirement	2-5
	Natural sciences requirement	4
MIS 100	Intro to Microcomputers	3
	Elective	4

**Sophomore
Fall**

ACCT 201	Financial Acct	4
MATH 250B	Finite	4
	Electives	8

Winter

ACCT 202	Managerial Acct	4
QBA 201	Intro to Bus. Stat	4
	Natural sciences requirement	2-5
	Elective	2-5

Spring

BUSL 255	Law and Society	4
	Social sciences requirement	2-5
	Electives	2-8

**Junior
Fall**

ECON 305	Managerial Econ.	4
MGT 300	Mgt.	4
MGT 325J	Business Communication	4
	Management major elective	4

Winter

BUSL 356	Law of the Mgt. Proc.	4
FIN 325	Managerial Finance	4
OPN 310	Principles of Operations	4
	Management major elective	4

Spring

MIS 300	Bus. Information Systems	4
MKT 301	Mkt. Prin.	4
	Management major elective	4
	Business prelaw course	4

**Senior
Fall**

BA 470	Admin. Policy	4
	Management major elective	4
	Business prelaw course	4
	Advanced business law course	4

Winter

	Management major elective	4
	Management major elective	4
	Business prelaw course	4
	Elective	2-5

Spring

	Elective	4
	Elective	2-5
	Elective	2-5

Finance Major

(Major code #BB6125)

The finance major prepares professionals who are concerned with the development and distribution of funds for economic and social purposes. Coursework is available in the fields of financial management (both national and international), commercial banking, financial institutions, security markets, and risk and insurance.

Typically, upon graduation, the finance major obtains direct entry positions in such areas as the financial banking community, insurance, government services, or in an array of industries that employ financial analysts, decision makers, financial strategists, budgeting officers, and planners.

Suggested Course Sequence*

Freshman

Fall

ECON 103	Prin. of Econ.	4
MATH 163A	Intro to Calculus	4
	Electives [†]	8

Winter

ECON 104	Prin. of Econ.	4
MIS 100	Intro to Microcomputers	3
	Electives [†]	9

Spring

INCO 103	Prin. of Econ.	4
	Electives [†]	12

Sophomore

Fall

ACCT 201	Financial Acct.	4
MATH 250B	Finite	4
	Electives [†]	8

Winter

ACCT 202	Managerial Acct.	4
QBA 201	Intro to Bus. Stat.	4
	Electives [†]	8

Spring

BUSL 255	Law and Society	4
	Electives [†]	12

Junior

Fall

ECON 305	Managerial Econ.	4
FIN 325	Managerial Finance	4
OPN 310	Principles of Operations	4
	Elective [†]	4

Winter

FIN 327	Banking and Financial Systems	4
FIN 341	Investments	4
MGT 300	Management	4
MKT 301	Marketing Principles	4

Spring

MGT 325J	Business Communication	4
FIN 331	Risk and Insurance	4
MIS 300	Bus. Information Systems	4
	Elective [†]	4

Senior

Fall

FIN 428 or FIN 461	Mgt. of Financial Inst.	4
	Problems in Bus. Finance	4
	Electives [†]	12

Winter

BA 470	Administrative Policy	4
FIN 450 or FIN 463	Credit and Lending	4
	Capital Allocation	4
	Electives [†]	8

Spring

FIN 455 or FIN 445	International Finance	4
	Portfolio Management	4
	Electives [†]	12

*The outlined courses are intended to act as a guide—not as a required sequence. For example, some freshmen should not take MATH 163A first quarter but should instead enroll in MATH 113 or another math course more basic than 163A. A factor influencing this decision is the math proficiency of the individual student. Decisions throughout the four-year program can best be reached by the student consulting with a faculty advisor for guidance.

[†]A minimum of 96 hours of nonbusiness courses is required, including six hours in humanities, six hours in natural sciences, six hours in social sciences, and the required eight hours of mathematics included in the core courses.

General Business Major

(Major code #BB6122)

The general business major prepares professionals on a broad basis for business careers. Five upper-level courses are required from the following areas/disciplines: accounting, quantitative business analysis, management, management information systems, business law, finance, marketing, operations, business administration, and economics (economics course selection restricted to ECON 303, 304, 320, 332, 360, or 430). Each course will be in a different functional area and/or discipline. This major is of special interest to those students who have a generalized view of business and do not possess strong interests in any one concentration.

Upon graduation, the general business major enters what may be the broadest area of positions of any major within the College of Business Administration. Recent general business majors have entered such fields as sales, banking, government services, personnel, advertising, small business entrepreneurship, production, and insurance.

Suggested Course Sequence*

Freshman

Fall

ECON 103	Prin. of Econ.	4
MATH 163A	Intro to Calculus	4
	Nonbusiness electives [†]	8

Winter

ECON 104	Prin. of Econ.	4
MIS 100	Intro to Microcomputers	3
	Nonbusiness electives	9

Spring

INCO 103	Public Speaking	4
	Nonbusiness electives	12

Sophomore**Fall**

ACCT 201	Financial Acct.	4
MATH 250B	Finite	4
	Nonbusiness electives	8

Winter

ACCT 202	Managerial Acct.	4
QBA 201	Intro to Bus. Stat.	4
	Nonbusiness electives	8

Spring

BU5L 255	Law and Society	4
	Nonbusiness electives	12

Junior**Fall**

ECON 305	Managerial Econ.	4
OPN 310	Principles of Operations	4
	Accounting 300-400 level	4
	Business or nonbusiness electives	4

Winter

FIN 325	Managerial Finance	4
MGT 300	Mgt.	4
	Finance 300-400 level	4
MIS 300	Bus. Information Systems	4

Spring

MGT 325J	Business Communication	4
MKT 301	Prin. of Marketing	4
	Management 300-400 level	4
	Business or nonbusiness electives	4

Senior**Fall**

BA 470	Administrative Policy	4
	Marketing 300-400 level	4
	Business or nonbusiness electives	8

Winter

BA, BUSL, MIS, QBA, ECON, or OPN		4
	Business or nonbusiness electives	12

Spring

Business or nonbusiness electives		16
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*The outlined courses are intended to act as a guide—not as a required sequence. For example, some freshmen should not take MATH 163A first quarter but should instead enroll in MATH 113 or another math course more basic than 163A. A factor influencing this decision is the math proficiency of the individual student. Decisions throughout the four-year program can best be reached by the student consulting with a faculty advisor for guidance.

†A minimum of 96 hours of nonbusiness courses is required, including six hours in humanities, six hours in natural sciences, six hours in social sciences, and the required eight hours of mathematics included in the core courses.

Human Resource Management Major**(Major code #BB6130)**

The demand for human resource professionals as strategic partners on the management teams of organizations is growing rapidly.

The human resource management (HRM) major is designed to provide an educational background for students with a career interest in human resource management and/or labor relations in both private and public sector organizations. Specifically, the major provides basic preparation for entry-level positions in human resource management and the educational background that supports career advancement in this area. It also prepares students for a variety of positions in which a working knowledge of human resource management activities is critical to success on the job.

In addition to the B.B.A. requirements, a student majoring in human resource management must complete the following courses: BUSL 356 (Law of the Management Process), HRM 420 (Human Resource Mgt.), HRM 425 (Labor Relations), MGT 340 (Organizational Behavior-Micro Perspective), HRM 430 (Compensation Management), HRM 440 (Human Resource Training, Development, and Research), HRM 450 (Recruitment, Selection, and Appraisal), and HRM 460 (Human Resource Policy, Planning, and Information Systems). **Note: HRM 460 may not be taken concurrently with HRM 430, 440, or 450. Therefore, it is important to take MGT 300 the first quarter of the junior year and HRM 420 the second quarter of the junior year in order to take the upper-level courses in the required sequence during the junior and senior years.**

Majors also are expected to select, with the help of their advisors, electives relevant to their career preparation. A sample of recommended electives follows: ACCT 310 (Cost Accounting), AAS 225 (History of the Black Worker), ECON 320 (Labor Economics), ECON 321 (Labor Legislation), ISE 422 (Seminar in Occupational Safety and Health), INCO 404 (Principles and Techniques of Interviewing), PSY 101 (General Psychology), PSY 241 (Behavioral Measurement), PSY 261 (Industrial Psychology), PSY 275 (Educational Psychology), PSY 336 (Social Psychology), and SOC 101 (Introduction to Sociology).

The student's advisor helps to define a realistic career plan, reviewing the student's interests, strengths, and weaknesses. As an outgrowth of the student's career plan, an educational program will be developed. We firmly believe that a close working relationship with a faculty advisor is an important factor in ensuring a sound education.

Students may want to join the Ohio University Student Human Resource Management Association, a chapter of the Society for Human Resource Management. Presentations by personnel and industrial relations managers and field trips bring the members in contact with human resource managers and serve to complement formal classroom studies.

Suggested Course Sequence**Freshman****Fall**

ECON 103	Prin. of Econ.	4
ENG 151	Freshman Comp.: Writing and Rhet.	5
	Social sciences requirement	4
	Elective (MATH 113 unless strong math background)	3

Winter

ECON 104	Prin. of Econ.	4
INCO 103	Pub. Speaking	4
MATH 163A	Intro to Calculus	4
	Humanities requirement	4

Spring

	Humanities requirement	4
	Natural sciences requirement	4
MIS 100	Intro to Microcomputers	3
	Electives	5

Sophomore**Fall**

ACCT 201	Financial Acct.	4
MATH 250B	Finite Math	4
	Electives	8

Winter

ACCT 202	Managerial Acct.	4
QBA 201	Intro to Bus. Stat.	4
	Natural sciences requirement	4
	Elective	4

Spring

BUSL 255	Law and Society	4
	Social sciences requirement	4
	Electives	8

Junior**Fall**

BUSL 356	Law of Mgt. Process	4
ECON 305	Managerial Econ.	4
MGT 300	Management	4
MGT 325J	Business Communication	4

Winter

FIN 325	Managerial Finance	4
HRM 420	Human Resource Mgt.	4
MGT 340	Organizational Behavior- Micro.	4
OPN 310	Principles of Operations	4

Spring

HRM 425	Labor Relations	4
MIS 300	Bus. Information Systems	4
MKT 301	Marketing Principles	4
	Elective	4

Senior**Fall**

BA 470	Admin. Policy	4
HRM 430	Compensation Management	4
	Electives	8

Winter

HRM 440	Human Resource Train., Dev., and Research	4
HRM 450	Recruitment, Selection, and Appraisal	4
	Electives	8

Spring

HRM 460	Human Resource Policy, Plan, and Info Systems	4
	Electives	12

International Business Major**(Major code #BB6132)**

Students majoring in international business must complete the requirements for the international business major in conjunction with any CBA major except general business or business prelaw. A total of 28 credit hours should be earned by combining courses from the following: (a) GEOG 121, Human Geography; (b) one 4-hour course from Tier II Third-World Cultures or any foreign language (except Latin or Greek) at the intermediate level (211); (c) ECON 340, International Trade; (d) FIN 455, International Finance; (e) MGT 484, International Comparative Management; (f) MKT 441, International Marketing; (g) BA 385, Multinational Business.

If the required courses are not offered in a given year, a student may substitute any of the following for the missing course(s): ECON 341, International Monetary Systems (this course is preferable to others as a substitute for FIN 455); ECON 342, International Economic Policy (this course is preferable to others as a substitute for BA 385); POLS 455, International Law, or POLS 456, International Organization; GEOG 321, Population Geography; and INCO 410, Cross-Cultural Communication. (These courses may be used as a substitute for any missing course upon consultation with the faculty advisor.)

Suggested Course Sequence***Freshman****Fall**

ECON 103	Prin. of Micro.	4
MATH 163A	Intro to Calculus*	4
	Nonbusiness electives [†]	8

Winter

ECON 104	Prin. of Macro.	4
INCO 103	Public Speaking	4
MIS 100	Intro to Microcomputers	3
	Nonbusiness electives [†]	5

Spring

	Nonbusiness electives [†]	16
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Sophomore

Fall

ACCT 201	Financial Acct.	4
MATH 250B	Finite Math	4
	Nonbusiness electives†	8

Winter

ACCT 202	Managerial Acct.	4
BA 201	Intro to Bus. Stat.	4
	Nonbusiness electives†	8

Spring

BUSL 255	Law and Society	4
	Third World cultures or modern language	4
	Nonbusiness electives†	8

Junior

Fall

ECON 305	Managerial Econ.	4
OPN 310	Principles of Operations	4
	Conjunctive major course	4
	Business or nonbusiness elective	4

Winter

FIN 325	Managerial Finance	4
MGT 300	Management	4
BA 385	Multinational Business	4
MIS 300	Bus. Information Systems	4

Spring

MGT 325J	Business Communication	4
MKT 301	Prin. of Marketing	4
	Conjunctive major course	4
	Business or nonbusiness elective	4

Senior

Fall

BA 470	Administrative Policy	4
ECON 340	International Trade	4
	Conjunctive major course	4
	Business or nonbusiness elective	4

Winter

FIN 455	International Finance	4
MKT 441	International Marketing	4
	Conjunctive major course	4
	Business or nonbusiness elective	4

Spring

MGT 484	International Comparative Mgt.	4
	Conjunctive major course	4
	Conjunctive major course	4
	Business or nonbusiness elective	4

*The outlined courses are intended to act as a guide—not as a required sequence. For example, some freshmen should not take MATH 163A first quarter but should instead enroll in MATH 113 or another math course more basic than 163A. A factor influencing this decision is the math proficiency of the individual student. Decisions throughout the four-year program can best be reached by the student consulting with a faculty advisor for guidance.

†A minimum of 96 hours of nonbusiness courses is required, including six hours in humanities, six hours in natural sciences, six hours in social sciences, and the required eight hours of mathematics included in the core courses.

Management Information Systems Major

(Major code #BB6137)

The management information systems (MIS) major is unique in its emphasis on applying computers to build information systems for business applications; the approach is applications oriented rather than technical. MIS majors will be trained to assist with the rapidly progressing computerization of managerial functions. MIS majors can be expected to become expert managerial computer users or intermediaries between users and computer centers.

The hands-on emphasis of the program exposes students to a number of hardware and software solutions to common business problems. This training is designed to produce students who can quickly master computer technology so they will be able to adapt quickly to new technology and apply it to business problems as the software and hardware evolve. Being able to communicate with both management and computer specialists makes MIS graduates ideal candidates for positions in organizations that make use of information systems.

In addition to the core curriculum for all candidates for the B.B.A. degree, a student majoring in MIS must complete MIS 220, 225, 320, 325, 380, 420, and 495. Also, one additional course must be completed from the following: MIS 340, 350, 430, 440, 455, or 480. Elective courses include MIS 230, 235, and 240.

Suggested Course Sequence

Freshman

ECON 103, 104	Prin. of Econ.	8
INCO 103	Pub. Speaking	4
MATH 163A	Intro to Calc.	4
MIS 100	Intro to Microcomputers	3
	Humanities (minimum)	6
	Social sciences (minimum)	6
	Natural sciences (minimum)	6
	Electives	11

Sophomore

ACCT 201, 202	Accounting	8
BUSL 255	Law and Society	4
MATH 250B	Finite Math	4
MIS 220	File Processing	4
MIS 225	Prototyping and Fourth-Generation Lang.	4
QBA 201	Intro. to Bus. Stat.	4
	Electives	20

Junior

ECON 305	Managerial Econ.	4
FIN 325	Managerial Fin.	4
MGT 300	Mgt.	4
MGT 325J	Business Communication	4
MKT 301	Marketing Prin.	4
MIS 300	Business Information System	4
MIS 320	Business Systems I	4
MIS 325	PC LAN Applications	4
MIS 380	Business Data Base I	4
OPN 310	Principles of Operations	4
	Electives	8

Senior

BA 470	Admin. Policy	4
MIS 420	Business Systems II	4
MIS 495	Management Information Systems	4
	Additional MIS Course	4
	Electives	32

Management Major**(Major code #BB6126)**

The manager's role is changing. Managers have ultimate responsibility for the effective performance of business and nonprofit organizations over the long term. While the responsibility has not changed, the manner in which managers must operate to be effective has changed.

Today's organizations are becoming increasingly competitive. Customers, consumers, and clients are expecting world-class quality products and services, available instantaneously, at the lowest possible cost—and will cross geographical and time boundaries to obtain them. These changes in competitive conditions require different types of organizations.

The organizations of tomorrow are more flexible and change rapidly in response to environmental demands. Many decisions are made by people closer to the action, and there is a greater reliance on technology, particularly information technology, to keep the organization competitive.

Managers, too, have changed roles. They envision, enable, and energize (rather than supervise, direct, and control). They communicate incessantly, energizing the organization with a clear vision of the future—a vision developed not independently but collaboratively, drawing upon the best of minds from the broadest of perspectives. Beyond an understanding of business functions, these managers need:

Realistic understanding of the business world, its nature, function, and place in our society.

An awareness of current activities and concerns of the business community.

Behavioral skills (such as oral and written communication and interpersonal relations) necessary to collaborate effectively with people from diverse backgrounds.

Ability to view business situations from a broad perspective including an understanding of technology, culture, and social values and their interrelationships with the organization.

Personal characteristics such as initiative, proactivity, independence, creativity, personal responsibility, morality, reliability, and energy.

The management major is designed to provide an educational base for students who will be managers and leaders in the globally oriented, information-age organizations of the future.

It is designed less to prepare people for entry-level positions than to prepare them for the first significant promotion. In this program, students develop a base of knowledge and skills to which they add experience and additional development as they assume ever more responsible leadership roles.

Suggested Course Sequence

A student majoring in management must complete the freshman experience, managing (MGT 100, 101, and 102), the senior seminar (MGT 460), and the senior project (MGT 480). In addition, the student must select 12 hours from the following courses, normally during the sophomore and junior years. We suggest that 200-level courses be taken during the sophomore year and the 300-level courses be taken during the junior year.

**Freshman
Fall**

ECON 103	Prin. of Econ.	4
ENG 151	Freshman Comp.: Writing and Rhet.	5
	Social sciences requirement	3
	Elective (MATH 113 unless strong math background)	4

Winter

ECON 104	Prin. of Econ.	4
INCO 103	Pub. Speaking	4
MATH 163A	Intro to Calculus	4
	Humanities requirement	4

Spring

	Humanities requirement	4
	Natural sciences requirement	4
MIS 100	Intro to Microcomputers	3
	Elective	5

Sophomore

MGT 210	Business Presentations	2
MGT 220	Problem Identification	2
MGT 230	Team Process	2
MGT 240	Negotiations	2
MGT 250	Operational Planning and Control	2
MGT 260	Conflict Management	2

Junior

MGT 320	Industrial Relations	2
MGT 330	Human Behavior in Organizations	2
MGT 350	Ethical Issues	2
MGT 360	Working	2
MGT 370	Transforming Organizations	2
MGT 380	Leaders	2
BUSL 380	Managers in Regulatory Environment	2
BUSL 390	Current Topics in Corporate Law	2

**Senior
Fall**

BA 470	Admin. Policy	4
	Electives	12

Winter

	Electives	12
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Spring

MGT 480	Business Org.	4
	Electives	16

To assist in obtaining the first job, students are strongly encouraged to select a strong supporting field of study, particularly a more technical or functional field (such as Operations, Marketing, Finance, Management Information Systems, or Accounting) to gain skills needed for the entry-level position.

Marketing Major

(Major code #BB6127)

Marketing is the lifeline of any organization. It links the organization with its customers. Vital not only to the maintenance of the survival of the organization, marketing is essential to the maintenance of the free enterprise system. The marketing curriculum is designed to give the student both a broad knowledge and an opportunity to specialize in any area of the student's choice. The marketing major prepares students to become professional marketing personnel via available coursework in personal selling and sales management, marketing research and consumer behavior, and marketing analysis and management (national as well as international).

Typically, upon graduation, the marketing major obtains direct entry positions in such areas as sales, sales management, and retail management with companies that specialize in analysis and description of the consumer and his or her attitudes and behaviors.

In addition to the B.B.A. core requirements, a student majoring in marketing must complete 24 hours of marketing courses at the 300-400 level including MKT 358, MKT 379, and MKT 463.

Suggested Course Sequence*

Freshman

ECON 103	Prin. of Econ.	4
MATH 163A	Intro to Calculus	4
PSY 101	Gen. Psych.	5
	Nonbusiness electives†	3

Winter

ECON 104	Prin. of Econ.	4
MIS 100	Intro to Microcomputers	3
SOC 101	Intro to Sociology	5
	Nonbusiness electives	4

Spring

ENG 151	Freshman Comp.: Writing and Rhet.	5
INCO 103		4
	Nonbusiness electives	7

Sophomore

ACCT 201	Financial Acct.	4
MATH 250B	Finite Math	4
	Nonbusiness electives	8

Winter

ACCT 202	Managerial Acct.	4
QBA 201	Intro to Bus. Stat.	4
	Nonbusiness electives	8

Spring

BUSL 255	Law and Society	4
	Nonbusiness electives	4
	Electives	8

Junior

ECON 305	Managerial Econ.	4
MIS 300	Bus. Information Sys.	4
MKT 301	Prin. of Mkt.	4
OPN 310	Principles of Operations	4

Winter

FIN 325	Managerial Fin.	4
MGT 300	Mgt.	4
MKT 379	Marketing Research	4
	Marketing elective	4

Spring

MGT 325J	Business Communication	4
MKT 358	Techniques in Personal Selling	4
	Marketing elective	4
	Marketing elective	4

Senior

BA 470	Administrative Policy	4
MKT 463	Mkt. Strategy	4
	Marketing elective	4
	Business or nonbusiness electives	4

Winter

	Business or nonbusiness electives	16
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Spring

	Business or nonbusiness electives	16
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*The outlined courses are intended to act as a guide—not as a required sequence. For example, some freshmen should not take MATH 163A first quarter but should instead enroll in MATH 113 or another math course more basic than 163A. A factor influencing this decision is the math proficiency of the individual student. Decisions throughout the four-year program can best be reached by the student consulting with a faculty advisor for guidance.

†A minimum of 96 hours of nonbusiness courses is required, including six hours in humanities, six hours in natural sciences, six hours in social sciences, and the required eight hours of mathematics included in the core courses.

Operations

(Major code #BB6138)

During the last two decades, American industry has faced a crisis—a crisis brought on by intense foreign competition in the areas of higher quality, lower costs, and faster, more reliable performance. To respond to this crisis, industry leaders found that they needed to re-invent the organization; old organizational forms no longer worked under the new realities.

Other institutions in American society are now feeling the same pressures. Health care institutions face a crisis of cost and a dwindling supply of professionals. Educational institutions look to a future that calls for them to "do more with less." Service organizations are expected to perform instantaneously and improve their quality levels at the same time.

Firms that have successfully met the challenges of global competition have learned how to provide world-class quality products and services with minimum cost structure, and how to respond rapidly to changing customer expectations. The operations function has been central to the success of these firms.

The operations major provides students with in-depth understanding of the concepts and techniques that industry uses to effectively meet these challenges. This area of study will prepare students to be leaders of both the manufacturing and service organizations that will meet the global competitive challenges of the 21st century. Students with expertise in operations are among the most heavily in demand by business firms recruiting graduates.

In addition to the core curriculum required of all business majors, operations majors must also complete OPN 330, Process Design; OPN 340, Managing Quality; OPN 410, Logistics; OPN 420, Problems and Models in Operations; OPN 430, Operations Strategy; and OPN 440, Management Operations.

Suggested Course Sequence

Freshman

Fall

ECON 103	Prin. of Econ.	4
ENG 151	Freshman Comp.: Writing and Rhet.	5
	Social sciences requirement	3
	Elective (MATH 113 unless strong math background)	4

Winter

ECON 104	Prin. of Econ.	4
INCO 103	Public Speaking	4
MATH 163A	Intro to Calculus	4
	Humanities requirement	4

Spring

MIS 100	Intro to Microcomputers	3
	Humanities requirement	4
	Natural sciences requirement	4
	Elective	5

Sophomore

Fall

ACCT 201	Managerial Acct.	4
MATH 250B	Finite Mathematics	4
	Electives	8

Winter

ACCT 202	Managerial Acct.	4
QBA 201	Intro to Bus. Stat.	4
	Natural sciences requirement	4
	Elective	4

Spring

BU5L 255	Law and Society	4
	Social science requirement	4
	Electives	8

Junior

Fall

MGT 300	Management	4
MGT 325J	Business Communication	4
ECON 305	Managerial Econ.	4
OPN 310	Principles of Operations	4

Winter

FIN 325	Managerial Fin.	4
OPN 330	Operations Processes	4
MIS 300	Bus. Information Systems	4
	Elective	4

Spring

MKT 301	Marketing Prin.	4
OPN 340	Managing Quality	4
	Electives	8

Senior

Fall

BA 470	Admin. Policy	4
OPN 410	Logistics in Operations	4
	Electives	8

Winter

OPN 420	Problems and Models in Operations	4
	Electives	12

Spring

OPN 430	Operations Strategy	4
OPN 440	Managing Operations	4
	Electives	8

Small Business Entrepreneurship Major

(Major code #BB6133)

The small business entrepreneurship major prepares students who wish to start or manage their own business, work in a family-owned business, manage a small business, or manage branches or franchises of larger firms.

In addition to the B.B.A. core requirements, a student must complete ACCT 218, Computer Application Software for the Small Business; FIN 452, Small Business Finance; BA 445, Small Business Administration; HRM 420, Human Resource Management; and four elective courses including at least one marketing course and one accounting course from the following: MGT 340, Organizational Behavior-Micro Perspective; BUSL 356, Law of the Management Process; ACCT 217, Intro. to Taxation; ACCT 310, Cost Accounting; ACCT 203, Accounting Information Systems; MKT 379, Marketing Research; MKT 444, Consumer Behavior; MKT 462, Product Development; OPN 411, Production/Operations Planning and Control; and OPN 412, Production/Operations Management Problems.

A student majoring in small business entrepreneurship will be assigned an advisor who will work with the student to help define career goals based upon student interests, review strengths and weaknesses, and recommend relevant elective courses. Students are expected to meet with their advisors at least once each quarter.

Suggested Course Sequence

Freshman

Fall

ECON 103	Prin. of Econ.	4
ENG 151	Freshman Comp.: Writing and Rhet.	5
	Social sciences requirement	4
	Elective (MATH 113 unless strong math background)	3

Winter

ECON 104	Prin. of Econ.	4
INCO 103	Pub. Speaking	4
MATH 163A	Intro to Calculus	4
	Humanities requirement	4

Spring

MIS 100	Intro to Microcomputers	3
	Humanities requirement	4
	Natural sciences requirement	4
	Elective	4

Sophomore

Fall

ACCT 201	Financial Acct.	4
MATH 250B	Finite	4
	Electives	8

Winter

ACCT 202	Managerial Acct.	4
QBA 201	Intro to Bus. Stat.	4
	Natural sciences requirement	4
	Elective	4

Spring

ACCT 218	Computer App. Software for Sm. Bus.	4
BUSL 255	Law and Society	4
	Social sciences requirement	4
	Electives	4

Junior

Fall

ECON 305	Managerial Economics	4
MGT 300	Management	4
MGT 325J	Business Communication	4
	Major elective	4

Winter

FIN 325	Managerial Finance	4
MIS 300	Bus. Information Sys.	4
OPN 310	Principles of Operations	4
	Major elective	4

Spring

HRM 420	Human Resource	4
MKT 301	Marketing Principles	4
	Major elective	4
	Elective	4

Senior

Fall

BA 470	Admin. Policy	4
	Major elective	4
	Electives	8

Winter

FIN 452	Small Business Finance	4
	Major elective	4
	Electives	8

Spring

BA 445	Small Business Administration	4
	Electives	12

College of Communication

Paul E. Nelson, Dean

Tom Daniels, Associate Dean

Sandra Haggerty, Assistant Dean

The College of Communication includes the J. Warren McClure School of Communication Systems Management, the School of Interpersonal Communication, the E.W. Scripps School of Journalism, the School of Telecommunications, and the School of Visual Communication.

The college was created to meet more fully the communication needs of a changing society. New forms of communication, the growth of communications systems, and the need for better communication among people, races, economic groups, and nations were factors in Ohio University's decision to prepare graduates both for traditional roles and for a variety of new responsibilities.

The college is equipped to train graduates for professional careers in journalism, telecommunications, voice and data communication, visual communication, and organizational and interpersonal communication. The college operates on the assumption that professional competency in these areas calls for the highest proficiency in the field of specialization, plus the broadest liberal education in other disciplines.

The E.W. Scripps School of Journalism is fully accredited, with undergraduate sequences in advertising, broadcast news, news writing and editing, magazine journalism, photojournalism, and public relations.

The journalism school is recognized nationally and by the Ohio Board of Regents for the quality of its more than 200 annual graduates who move into professional careers on leading newspapers, magazines, and news-gathering organizations, as well as into advertising and public relations positions. Careers take them to all parts of the world.

The School of Telecommunications is one of the largest broadcasting and electronic media programs in the United States, and national surveys have ranked it as one of the best in the country. It has received Program Excellence and Academic Challenge awards from the Ohio Board of Regents for the quality of its instruction.

Study in telecommunications includes a broad-based education that prepares students for careers in the electronic media, including radio and television, cable, corporate media, and studio recording. Many opportunities are provided for hands-on experience while on campus, including a campus radio network, a video production unit, WOUB AM-FM-TV, and public

broadcasting stations. A year-round internship program places qualified advanced students in one-term, full-time media jobs in the U.S. and abroad.

The School of Interpersonal Communication offers coursework in six program tracks: communication in human services, communication theory, legal communication, organizational communication, political communication, and speech education.

The School of Visual Communication prepares students for careers in informational graphics, time based multi-media, photo communication, picture editing/page design, and photo illustration. Students graduating from the program are qualified to pursue careers in newspapers and magazines.

The J. Warren McClure School of Communication Systems Management is a unique program that educates students about the design, management, and uses of advanced communication technologies. The only program of its kind in Ohio, and one of very few in the nation, the school offers a four-year baccalaureate program leading to a degree in communication systems management. Coursework centers on the business applications of voice and data networks and services. The interdisciplinary approach, a highly successful paid internship program, and substantial hands-on laboratory experience prepare students

for careers managing business communication networks, as well as for careers with major telephone companies, consulting firms, and governmental agencies.

All programs of study at the undergraduate level lead to the bachelor's degree. More detailed descriptions and the requirements for the various majors offered in the schools are given in the pages immediately following.

Graduate programs leading to the M.A., M.S., and Ph.D. degrees are available in interpersonal communication, journalism, and telecommunications. These are described in detail in the *Graduate Catalog*.

Admission Requirements

Freshman admission to the College of Communication's J. Warren McClure School of Communication Systems Management, School of Interpersonal Communication, E.W. Scripps School of Journalism, School of Telecommunications, and School of Visual Communication is based on high school class rank, test scores, and professional activities, as well as availability of openings in the academic unit to which the student applies.

Students who may receive additional consideration include those with demonstrated talent or experience, and/or those coming from historically underrepresented groups. For information on admission procedures, contact the school director.

Transfer Policy

In all cases it is recommended that students consult the transfer requirements of the individual schools for specific transfer requirements, but in general, all students wishing to transfer into the college must have earned at least 48 quarter hours (32 semester hours) with a grade-point average of at least 2.5. Individual schools may have more rigorous standards. Students who may receive additional consideration include those with demonstrated talent or experience, and/or those coming from historically underrepresented groups.

This regulation applies to:

Students transferring from other universities.

Students transferring from other programs within Ohio University.

Students transferring from one program to another within the College of Communication.

Note: a student must be enrolled one academic year (three consecutive quarters) or the final 48 hours in the unit conferring the degree.

Students transferring from elsewhere in the University must satisfy the School of Journalism's English Proficiency Requirement before admission to the School of Visual Communication.

Degrees and Requirements

The College of Communication offers curricula leading to the degrees of Bachelor of Science in Communication (interpersonal communication, telecommunications, communication systems management), Bachelor of Science in Journalism, and Bachelor of Science in Visual Communication.

Each candidate for a degree in the College of Communication must satisfy the requirements established by the program in which he or she is enrolled. In addition to unit requirements for completion of the bachelor's degree, a student must check with the proposed program for entrance requirements that are separate from admission to the college. Those requirements are specified on the following pages.

Additionally, students are required to meet the General Education Requirements that have been established by Ohio University. Most University General Education courses, however, can be used to satisfy both program and University requirements. Consult with your advisor on the dual application of those courses.

The student must also have a minimum total of 192 earned hours with a 2.0 (C) average in his or her major and in all hours attempted in the program. Only the final hours earned when courses are retaken count toward graduation.

The minimum residency requirement for a student receiving a bachelor's degree from the College of Communication shall be the final year (three quarters) or the final 48 hours of credit. In certain cases, exceptions may be made by the academic dean in consultation with the director of the school the student plans to enter.

Advising

A student entering the College of Communication is assigned an advisor by the school he or she plans to enter. Advisors will be assigned on the basis of student interest. Faculty advisors assist in the preparation of a schedule each quarter so that the proper sequence of courses in the major and appropriately related courses are selected. The student, however, is responsible for seeing that all requirements for the degree are being met.

Scholarships

Scholarships sponsored by the five divisions within the College of Communication for qualified undergraduate students are available on an annual basis. Inquiries about the scholarship program should be directed to the scholarship chairperson of each school or the dean's office.

J. Warren McClure

School of Communication Systems Management

Phyllis Bernt, Director

Bachelor of Science In Communication Systems Management

(Major code #BCS329)

Founded in the fall of 1980 as the Center for Communication Management, this was the first program of its type in Ohio and only the second in the United States at the baccalaureate level. It is a multidisciplinary major with students taking courses in nine other schools and departments, in addition to the J. Warren McClure School of Communication Systems Management. The program was designed with the assistance of the International Communications Association and other telecommunications professionals.

Purposes and Objectives

The purpose of the J. Warren McClure School of Communication Systems Management is to provide academic studies and research for the training of professionals in the field of voice/data telecommunications. These communication professionals fill a large number of roles: they design, supervise, and operate specialized communication systems for private industry and government; they design and market communication services on behalf of major telephone companies, cellular providers, and equipment vendors; and they apply their expertise on behalf of consulting firms and regulatory agencies.

Until the 1970s, professionals in the field were trained primarily on the job. But with the rapid expansion of technology and its applications, universities were asked to provide quality educational programs in this field. The Ohio University program is the result of five years of consultation and planning with experts at both the academic and applied levels.

The program is based on the philosophy that the communication professional must have broad basic knowledge and skill in such diverse areas as technology, business, computer systems, and written and oral communication.

While working toward their degrees, students are encouraged to gain practical experience through lab exercises, case studies, and internships. Students are given opportunities to observe and use communication systems (voice, image, and data) in the school's laboratories and through tours of the University's Communication Network Services installation and other facilities.

Transfer Students

The following transfer policy applies to students wishing to transfer from other universities, from other colleges within Ohio University, or from other schools within the College of Communication:

Students must meet the college transfer requirements (completion of 48 quarter hours, or 36 semester hours, with an earned g.p.a. of at least 2.5).

Students are required to meet with the school's director prior to applying for transfer.

Students are required to complete a "Transfer Information Sheet," available in the school office, and to supply their latest DARS report or transcript.

Students may apply for a transfer at any time.

Enrollment in the school is limited to promote quality instruction and effective advising. Should space become a problem, other transfer procedures may be adopted.

Internships

Students are encouraged to incorporate an internship as part of their course of study. The school has a strong internship program with more than 30 sponsoring organizations. The internships are usually 12 weeks and take place during the summer; other arrangements are possible. Students are treated as regular staff members and are paid for their efforts.

Internships are awarded on a competitive basis. Students must be majors in the program; must have attained at least junior rank; must have completed specified courses in the program (see the director for specific courses); must have a g.p.a. of 3.0 in major courses and an overall g.p.a. of 2.75; and must have one quarter remaining on campus after the internship is completed. Students must enroll in the University for academic credit during the internship and may earn up to 12 hours of course credit for completion of all internship requirements.

Students must apply to the internship coordinator for consideration.

Curricula and Requirements

A communication professional is asked to have reasonable familiarity with a number of concerns, both general and technical. The communication management major requires a multidisciplinary approach involving courses in other participating schools and departments, in addition to coursework offered by the school itself.

All majors in the program must earn a grade of C (2.0) or better in COMT 214, in COMT 220, and in COMT 302. Students with grades below C in any of these courses will not be permitted to enroll in upper-division COMT courses. Courses may be retaken as per University requirements.

Additionally, to remain active in the major, students must maintain a 2.0 average in all required courses, not solely those labeled as communication management courses.

Students are required to complete a secondary area of focus. These areas of focus traditionally have been in management/business administration, computer science, or technical areas. Other areas are possible as well. Students develop their specific secondary area of focus with their advisor's approval after completing COMT 214. Students should request further information regarding secondary areas of focus from the school office.

Each major must complete the core courses, focus area requirements, and other University requirements.

Requirements are structured to meet simultaneously the University's General Education Requirements and the needs of the major field.

Core Courses

1 General

ECON 103, 104	Prin. of Econ.	8
	Freshman Tier I English	5
	Tier I mathematics	4-5
	ENG 305J	4
ENG 305J	Technical writing	4
	Statistics	4
Other Tier requirements		

2 Technical and Business

ACCT 201, 202	Accounting	8
BUSL 255	Law and Society	4
CS 120	Comp. Literacy	5
MGT 300	Mgt.	4
	One computer language	5

3 General Communication

INCO 101, 103, 234, 245	16
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4 Communication Systems Management

COMT 214, 220, 222, 302, 304, 310, 312, 444, and 3 additional COMT courses (excluding COMT 401, 431, or 493)	38-41
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5 Secondary area of focus

Specific courses dependent upon area of focus	20-25
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6 Electives

As recommended by advisor

School of Interpersonal Communication

Sue DeWine, Director

The School of Interpersonal Communication offers a liberal education, emphasizing the scientific and artistic basis of communication. It is firmly committed to providing quality instruction in the theoretical bases of human communication and the application of theory within a number of specific contexts. Students within the major choose areas of specialization and specific courses that can lead to professional or preprofessional competence in such fields as training and human resources, foreign service, law, politics and government, human services, labor-management relations, personnel, campaign and propaganda administration, and poll and survey research.

Students majoring in interpersonal communication must choose at least one area of specialization from the following possible emphases or major tracks: communication theory, organizational communication, political communication, communication in human services, legal communication, or speech education. In addition to satisfying the track requirement, all majors must have a 28-hour related area that complements the coursework composing the major track. The related area is designed in consultation with a faculty advisor who must approve the coursework composing the related area. Through its advising program, the School of Interpersonal Communication makes every effort to identify the goals of its students and to design academically sound programs that address these goals.

Special Opportunities

Internship Program

For the student to have an opportunity to apply the theory of the classroom to the practical world of the workplace, the School of Interpersonal Communication supports a large and carefully supervised internship program. During the academic year, about 30 interpersonal communication majors serve as student interns within a wide variety of occupational settings. Many of these internships are identified and developed by the students. The period of an internship is usually 10 weeks, and one to 15 credits may be earned. To qualify for an internship, a student must be a major in interpersonal communication and must satisfy a series of school requirements. For more information regarding this program, contact the school's internship director.

Forensics Program

Through its forensics program, the School of Interpersonal Communication provides the opportunity for all University students to meet outstanding undergraduates from 300 or more colleges or universities in intellectual competition. Approximately 20 tournaments at other schools and several held on campus enable students to develop skills in debate, extemporaneous speaking,

oratory, rhetorical criticism, and oral interpretation. Excellence in scholarship and superior performance in speech communication are rewarded in several ways. Delta Sigma Rho-Tau Kappa Alpha national honorary is open to students in the upper third of their classes who excel in forensics. The Lorin C. Staats Award is given to the outstanding senior who has participated with distinction in several forensic areas. The outstanding junior or senior in debate receives the Francis McVicker Maxwell Award. A student need not be an interpersonal communication major to participate in the forensics program. For more information regarding Ohio University forensics, contact the director of the forensics program.

Preparation for Law School

The Association of American Law Schools states that the goals of prelegal education are: (1) comprehension and expression in words, (2) critical understanding of the human institutions and values with which the law deals, and (3) creative powers in thinking. In addition, all Ohio law schools require an undergraduate degree from an approved institution before admission. A student in the School of Interpersonal Communication who plans to enter law or paralegal school finds excellent opportunities for meeting these goals.

The prelaw student in interpersonal communication will be individually counseled and advised in developing a total course of study to meet the intellectual challenges of the legal profession. Suggested areas of study include communication theory and practice, argumentation, legal oratory and communication, English composition and literature, history, political science, business law, behavioral sciences, humanities, comparative arts, economics, and philosophy.

Prelaw students are encouraged to investigate the legal communication track of the interpersonal communication major.

Communication Research Center

This is a center for the development and distribution of communication research studies. The center coordinates the research activity of scholars in the full range of communication disciplines and seeks federal, state, and private grants to support its research activity. A research lab houses videotaping equipment to study interpersonal communication interactions.

Transfer Requirements

Students who wish to transfer into the School of Interpersonal Communication must have earned at least 48 quarter hours (32 semester hours) of coursework with a minimum g.p.a. of 2.5 to be considered for admission. Additional consideration may be given to students with special talents or membership in historically underrepresented groups. Transfer applicants must submit a "School of Interpersonal Communication Transfer Form" by November 1 for winter quarter admission or by May 15 for summer/fall quarter admission. Approval of transfer requests depends on the ratio of applications to the number of available openings in the program. Because the number of applications may exceed the number of openings, simply meeting the minimum transfer requirements does not guarantee approval of a transfer request.

Degree Requirements

In addition to the three sets of tier requirements and the 192 total hours specified by the University, all majors in the School of Interpersonal Communication must complete: (1) a 24-hour sequence of core courses, (2) a set of courses that defines one of the six major tracks offered by the school, and (3) a 28-hour related area approved by a faculty advisor and designed to complement and supplement the substance of the major track. Students are reminded that only one approved Tier II course in the major field can be applied in partial fulfillment of the Tier II requirement. The appropriate section of this catalog should be consulted regarding similar constraints that may apply to Tier III requirements.

Core Courses

All majors in the School of Interpersonal Communication must complete a 24-hour sequence of six courses composing a common core of knowledge. It is the intent of this requirement to provide all majors with foundation work upon which areas of specialization can be built. The six core courses are as follows:

INCO 101	Fundamentals of Human Communication	4
INCO 103	Public Speaking	4
INCO 205	Group Discussion	4
INCO 206	Communication in Interpersonal Relationships	4
INCO 234	Introduction to Communication Theory	4
INCO 342	Communication and Persuasion	4

Major Track Requirements

It is the intent of the School of Interpersonal Communication to provide its majors with the best features of liberal arts and professional education. Through the tier requirements of the University and the core course requirements of the school, students are taught problem solving, thinking paradigms, and creative expression. It is through the major track that the interpersonal communication student establishes an area of specialization. The available tracks provide training in a broad spectrum of human communication. While the tracks provide focus to the major, they typically are not intended to be career specific. Instead, each track provides instruction applicable to a variety of potential careers subsumed by the content domain of the specific track. Each major is expected to satisfy the requirements of at least one of the following six tracks. Students should select a track in consultation with their faculty advisors.

**Communication Theory
(Major code #BC5340)**

Wide exposure to human symbolic activity is the distinguishing feature of this major track. Classical through contemporary theories of communication are investigated. The role of language and the analysis of language are central concerns. A number of research techniques and tools through which communicative behavior might be studied and interpreted are emphasized. This track would be of prime interest for those students contemplating an advanced degree in communication theory or a related discipline.

1 Required Courses:

INCO 245	Introduction to Organizational Communication	4
INCO 250	Introduction to Rhetorical Theory	4
INCO 301	Empirical Research Applications in Communication	4
INCO 433	Applications of General Semantics	4
INCO 452	Psychology of Speech	4

Communication in Human Services
(Major code #BC5339)

Human service professionals and the agencies in which they work are concerned with meeting people's needs in such areas as physical and psychological health, child and family services, and social and economic welfare. Given the nature of their work, these professionals and agencies confront many special considerations necessary to understanding and engaging in human communication. The communication in human services track in interpersonal communication is designed to provide the student with broad exposure to these considerations. Courses emphasize the role of human communication in family dynamics and in health, communication processes in human services agencies, and important communication skills for the human service professions.

1 Required Courses:

INCO 240	Health Communication	4
INCO 422	Communication in the Family	4

2 Three courses selected from the following:

INCO 304	Principles and Techniques of Interviewing	4
INCO 410	Cross-Cultural Communication	4
INCO 420	Gender and Communication	4
INCO 430	Communication and the Campaign	4
INCO 452	Psychology of Speech	4

Legal Communication
(Major code #BC5341)

This track is intended primarily as a preprofessional degree program for those students contemplating careers within the legal profession. The approach is to emphasize the role of communication in general and argumentation and debate in particular. The courtroom oratorical practices of such masters as Cicero, Strafford, Erskine, Hastings, Marshall, Webster, and Darrow are considered in detail. Other topics receiving emphasis within the track include a survey of rhetorical theory from the Golden Age of Greece to the present, interviewing principles and techniques; ethical and rhetorical implications of constitutional guarantees on political, social, and religious speech; and the theory, research, and practice of analyzing human messages produced in natural settings. The prelaw student should prepare broadly for a legal career. This major track provides one means of accomplishing this preparation.

1 Required Courses:

INCO 215	Argumentative Analysis and Advocacy	4
INCO 250	Introduction to Rhetorical Theory	4
INCO 304	Principles and Techniques of Interviewing	4
INCO 315	Advanced Argumentation and Debate	4
INCO 351	Courtroom and Rhetoric	4
INCO 442	Responsibilities and Freedom of Speech in Communication	4

Organizational Communication
(Major code #BC5342)

This major track provides a challenging program of study for those students aiming for professional careers and administrative positions in business, educational, governmental, industrial, labor, or other organizational units. The goal of this major track is to provide the student with a blend of theory- and experience-based instructional opportunities. The acquisition of communication skills and research techniques so vital to the contemporary organization is emphasized within the track. These include public speaking, interviewing, small-group problem solving, campaign direction, and conference leadership, as well as historical, descriptive, and experimental methods in both field and laboratory settings. Recent graduates have secured public and private sector employment in such areas as training, personnel, organizational development, public affairs, fund raising, and information management.

1 Required Courses:

INCO 245	Introduction to Organizational Communication	4
INCO 301	Empirical Research Applications in Comm.	4
INCO 445	Practicum in Organizational Comm.	4

2 Three courses selected from the following:

INCO 300	Field Research Methodologies Communication	4
INCO 304	Principles and Techniques of Interviewing	4
INCO 405	Principles of Conference Leadership	4
INCO 421	Instructional Training and Development in Comm.	4
INCO 430	Communication and the Campaign	4

Political Communication
(Major code #BC5343)

Those students with interests or career goals in some aspects of politics will find the political communication track appealing. Coursework incorporates skills in both the theories of political communication and its practice by noteworthy figures of various historical periods. Such areas as argumentation and debate; argumentation in the legal setting; persuasive strategies characteristic of current political communication; and the practices of such individuals as Hitler, Mussolini, Lenin, Wilson, Churchill, Roosevelt, Kennedy, and King receive attention. Theory-based topics include symbolic politics, the place of myth in politics, and the political elements of film, literature, and television.

1 Required Courses:

INCO 215	Argumentative Analysis and Advocacy	4
INCO 352	Political Rhetoric	4
INCO 353	Contemporary Rhetoric	4

2 Three courses selected from the following:

INCO 250	Introduction to Rhetorical Theory	4
INCO 300	Field Research Methodologies in Comm.	4
INCO 301	Empirical Research Applications in Comm.	4
INCO 315	Advanced Argumentation and Debate	4
INCO 430	Communication and the Campaign	4
INCO 442	Respon. and Freedom of Speech in Comm.	4

Speech Education

This major track provides a program for students interested in high school teaching. The emphasis stresses a liberal arts education as related to interpersonal communication and professional preparation for state teaching certification. Within this area, the student has two program options: a communication comprehensive emphasis or a speech emphasis. Completion of the comprehensive communication program will certify a student to teach speech, journalism, reading, and English, or any combination thereof, in high school. The other program will certify for speech only. For details about these programs, see the College of Education section of this catalog.

Related Area Requirements. In addition to core courses and major-track requirements, all interpersonal communication majors must complete a 28-hour sequence in a related area. It is the function of this related area to complement or supplement the work of the major track. Related areas should be selected early but not until the major track is identified. The coursework composing the related area can come from one academic department or from several. Collectively, the related area coursework should constitute a unified body of knowledge having a definite relationship with the major track chosen by the student. All related areas must be approved by the student's faculty advisor.

Minor in Interpersonal Communication

The minor in interpersonal communication is available to students in all disciplines.

Required Core Courses (20 hrs)

INCO 101, 103, 205, 206, 342

Elective Courses (12 hrs)**Select any three:**

INCO 215, 220, 304, 351, 352, 353, 405, 420

Total Hours: 32

E.W. Scripps School of Journalism

Ralph Izard, Director

Thomas Peters, Associate Director

Patrick Washburn, Assistant Director

Bachelor of Science in Journalism

Ohio University's E.W. Scripps School of Journalism is accredited by the Accrediting Council on Education in Journalism and Mass Communication. It is one of a limited number of accredited schools and departments of journalism in the United States.

Purposes and Objectives

The purposes of the E.W. Scripps School of Journalism are: (1) to provide thorough, broadly based professional education and training in journalism and communications, leading to the B.S.J. and advanced degrees; (2) to provide liberal and cultural background in the arts, literature, languages, and social and natural sciences; (3) to promote scholarly research and achievements by the faculty and students; (4) to provide leadership and assistance to high school journalism and to professional associations on state, national, and international levels; and (5) to set high standards of journalism ethics.

Journalism today is a profession—like medicine, law, teaching, or engineering. It requires its practitioners to be culturally educated and professionally trained. Blending the liberal arts with professional courses, Ohio University journalism students take approximately three-fourths of their courses outside the professional school.

Five sequences are offered, all leading to the Bachelor of Science in Journalism degree: advertising, magazine journalism, news writing and editing, public relations, and broadcast news.

While there is overlap between journalism and telecommunications in broadcast news career preparation, students interested in being news writers, reporters, and anchors should enroll in the E.W. Scripps School of Journalism, and students interested in studio and field production should enroll in the School of Telecommunications.

While working toward their degrees, students may serve on the staff of the *Athens Messenger*, an independently owned daily newspaper. The city editor, managing editor, sports editor, and features editor are faculty members of the E.W. Scripps School of Journalism. The student staff members of the *Athens Messenger* gather and write news, edit local and wire copy, write headlines, and prepare copy and layouts. This training prepares students to enter the profession immediately after graduation.

Practical experience also is available on a laboratory magazine, *Southeast Ohio*, and in graphics and advertising laboratories. Many students add to their experience by helping edit *The Post*, the independent daily campus newspaper, or the *Athena*, the University yearbook.

In broadcast news, students get practical experience in preparing and broadcasting news over WOUB AM, FM, and TV, the University's radio and television stations, and the local cable television system.

Advertising and public relations students gain practical experience through specialized internships with agencies, corporations, hospitals, charitable groups, newspapers, magazines, and broadcast stations. Students comprise the advertising staff of *Southeast Ohio* magazine and serve in public relations capacities with University and community organizations.

Admission Requirements

The E.W. Scripps School of Journalism admits only the best academically and professionally qualified students who normally rank in the top 15 percent of their high school classes and meet minimum standardized test score requirements. Students with lower class rankings are considered if they have outstanding SAT or ACT scores. In addition, students who demonstrate notable talent or experience or have been historically under represented in the school will be given special consideration for admission.

Transfer Students

The following policy has been established by the E.W. Scripps School of Journalism as a means of selecting the best-qualified students for the program. The academic quality of the curriculum depends in part on maintaining enrollment at a number that may be effectively served by our faculty. The school is dedicated to top-quality instruction, and this policy is one means through which to achieve that goal.

1 Approximately 40 students will be accepted annually as transfer students into the E.W. Scripps School of Journalism.

2 Transfer students from within or outside Ohio University will be considered only when they have accumulated at least 48 quarter hours (32 semester hours) with a minimum 2.5 g.p.a.

3 In addition to grades, consideration will be given to test scores, grades in journalism classes, journalism background in a program offered by the school (professional, college, or high school), letters of recommendation, and personal statements of intent.

4 Transfer applications will be considered for admission only in the fall quarter.

5 Students may apply for transfer only through use of the E.W. Scripps School of Journalism's "Application for Transfer" form, obtained by writing to the admissions committee.

6 Official transcripts, letters, and other supporting documents must be attached to the "Application for Transfer" at the time of its submission.

7 Evaluations will be conducted and decisions made by a special faculty committee.

8 Applications for transfer should be received by the School of Journalism no later than the closing date of the winter quarter. At this time, students may be granted provisional admittance if they will have achieved the required 48 quarter hours by the time of the fall quarter admission.

Internship Program

Consistent with its policy of combining classwork with practical training, the E.W. Scripps School of Journalism offers an internship program to qualified students. Many of these internships are developed by the student. The period of internship is typically ten weeks. The intern is provided with as varied "hands on" experience in the media-related organizations as possible and may be paid a moderate stipend. Internship facilities are located throughout the nation and abroad.

Curricula and Requirements

The Accrediting Council on Education in Journalism and Mass Communication includes among its accrediting standards the following provision: generally, three-fourths of the student's program should consist of courses in the liberal arts and sciences and one-fourth in professional courses in journalism.

Journalism students at Ohio University meet the above provision largely by fulfilling two sets of requirements: general and specialization area requirements. The first of these provides for a liberal arts and sciences core for all students, as follows:

Political Science (2 qtrs)	English (2 qtrs) (one from approved school list)	Foreign Language (3 qtrs basic sequence or 1 qtr advanced)
Sociology and/or Anthropology (2 qtrs)	Statistics (1 qtr) (from approved school list)	or Natural Science (3 qtrs as approved by advisor)
Economics (2 qtrs)	Philosophy (2 qtrs) (one must be PHIL 120 or 320)	Comparative Arts/Fine Arts (nonperformance courses) (2 qtrs)
Psychology (1 qtr) (except PSY 121)		or African American and/or Women's Studies (2 qtrs)
History (2 qtrs)		

To this liberal base, which should be the focus of the freshman year, journalism students add courses in a desired area or areas of specialization. This requirement may be filled by completing any one of three options:

1 A minimum of 36 hours in a single department within the College of Arts and Sciences (usually structured in accordance with the major requirements of the selected department).

2 A minimum of 18 approved hours in each of two departments in Arts and Sciences.

3 A minimum of 18 approved hours in one Arts and Sciences department and 18 approved hours in any other series of related courses.

Additional nonjournalism courses are required in some sequences. No course may be counted in more than one type of requirement. For example, a course used to meet a general requirement may not be applied to a sequence or specialization area requirement as well.

To assure the liberal emphasis of the overall program, the professional content of the B.S.J. is limited to one-fourth of the 192 hours required for the degree. Credits for all courses in journalism, telecommunications, photography, and visual communication should total at least 45 hours and not more than 55 hours. All professional hours beyond 55 must be compensated for by nonprofessional hours over the required 192-hour total. Nonjournalism courses that are required in sequences are not to be counted as part of the 45-55 total professional hours.

Standards

1 To qualify for admission to JOUR 231, students must achieve at least 25 words per minute on a typing examination. This exam is administered on the first day of the JOUR 231 class.

2 To remain active in the B.S.J. program, a student must earn at least a C in all core courses.

3 No core course may be taken more than twice.

Journalism Sequences

All journalism majors complete a basic 22-hour core of six courses: JOUR 133 (unless waived), Precision Language for Journalists (4); JOUR 221, Graphics (5); JOUR 231, News Writing (4); JOUR 233, Information Gathering (3); JOUR 411, Newspaper and Communications Law (3); and JOUR 412, Ethics, Mass Media, and Society (3). A grade of C or better is required in all core courses.

JOUR 105, Introduction to Mass Communication, a freshman course, is optional.

The additional requirements for the various sequences are as follows:

**Advertising Management
(Major code #BJ6932)**

JOUR 250	Advert. Prin.	4
JOUR 321	Print Advert. and Layout	4
JOUR 323	Print Advert. Prac. or approved internship	2
JOUR 375	Advert. Media Plan. and Buying	4
JOUR 450	Advert. Copy Writing	3
JOUR 482	R-TV Advert. and Mgt.	4
JOUR 486	Advertising Campaigns	5
MKT 301	Mkt. Prin.	4
	Journalism electives to make	45-55 hours

**Broadcast News
(Major code #BJ6936)**

JOUR 350	Radio Broadcast News	4
JOUR 352	TV Broadcast News	4
JOUR 353	Broadcast News Prac. or approved internship	2
JOUR 452	Broadcast News Production	4
JOUR 455	Seminar in Broadcast News	3
JOUR 458	TV News Practice	4
JOUR 459	Advanced TV News Practice	3
JOUR 464	Reporting Public Affairs	3
	Journalism electives to make	45-55 hours

**Magazine Journalism
(Major code #BJ6933)**

JOUR 430	Mag. Ed. and Prod.	4
JOUR 431	Mag. Editing Practice	3
JOUR 441	Mag. Feature Writing	4
JOUR 443 or JOUR 483	Advanced Mag. Editing Mag. Pub. and Mgt.	3

Select two:

JOUR 331	Reporting Contemp. Issues	3
JOUR 363	Review and Crit.	3
JOUR 432	Specialized Mags.	3
JOUR 441	(second time)	4
JOUR 442	Adv. Mag. Feature Writing	3
JOUR 464	Reporting Public Affairs	3
	Journalism electives to make 45-55 hours	

**News Writing and Editing
(Major code #BJ6934)**

JOUR 311	Hist. of Am. Jour.	4
JOUR 331	Reporting Contemp. Issues	3
JOUR 333	News Editing	4
JOUR 332 and JOUR 334	Reporting Prac. Edit. Prac. or approved internship	2
JOUR 464	Reporting Public Affairs	3

Select two:

JOUR 350	Radio Broadcast News	4
JOUR 363	Review and Crit.	3
JOUR 441J	Mag. Feature Writing	4
JOUR 442	Adv. Mag. Feature Writing	3
JOUR 465	Editorial Page	3
JOUR 468	Column Writing	3
JOUR 470	Sportswriting	3
	Journalism electives to make	45-55 hours

**Public Relations
(Major code #BJ6935)**

JOUR 270	Intro to Public Relations	3
JOUR 331	Reporting Contemp. Issues	3
JOUR 332	Reporting Prac. or approved internship	2
JOUR 333	News Editing	4
JOUR 370	Media Relations and Publicity	4
JOUR 430	Mag. Edit. and Prod.	4
JOUR 471	PR Prin.	4
JOUR 472	Adv. PR	4

Select one of the following:

JOUR 350	Radio Broadcast News	4
JOUR 441J	Mag. Feature Writing	4
JOUR 450	Advert. Copy Writing	3
	Journalism electives to make	45-55 hours

Select one course from:

SOC 210, 211, 412, 413, or 414	4
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Carr Van Anda Program

A junior with a 3.0 accumulative average in journalism and a 2.5 accumulative average in all work may elect a sequence making up his or her own program in journalism. It will consist of the basic core of six courses plus the student's choice of journalism courses to equal 45-55 hours. The program must have the approval of the student's advisor and the director of the E.W. Scripps School of Journalism. Formal application is necessary.

School of Telecommunications

David H. Mould, Acting Director

Vibert C. Cambridge, Associate Director

The School of Telecommunications offers programs of study leading to bachelor's, master's, and doctoral degrees. The baccalaureate program is a professional degree program designed to prepare students for careers in all aspects of telecommunications. After two years of general education and basic telecommunications courses, students develop sequences for the junior and senior years that combine a selection of courses within the major with complementary courses in other fields. Specific sequences in audio production, video production, and management/administration are offered on a competitive basis. While there is overlap between journalism and telecommunications in broadcast news career preparation, students interested in studio and field production should enroll in the School of Telecommunications, and students interested in news writing, reporting, and anchoring should enroll in the E.W. Scripps School of Journalism. The school also offers an Honors Tutorial Program to qualified students. (See Honors Tutorial College under the Colleges and Curricula section of this catalog.)

The classroom and laboratory experiences of students are augmented by a variety of practical experiences, including work with Athens Video Works, the school's production unit, the All-Campus Radio Network, and the three University-owned and operated stations: WOUB-AM, WOUB-FM, and WOUB-TV. Credit for such experiences is granted through TCOM 390.

Opportunities for internships, placement, and professional involvement are supplemented by the school's participation with the Ohio Association of Broadcasters, the Ohio Cable Television Association, the International Radio-Television Society, the National Association of Television Program Executives, and the National Association of Broadcasters.

Scholarships in the amount of \$1,000 per year are awarded to qualified freshmen. In addition, Dean's Achievement Scholarships and School of Telecommunications' awards are available to majors and premajors.

Ohio University-Zanesville offers an associate's degree program in electronic media, including a sequence in broadcast engineering. The department offers the student a smaller, more intimate setting for the first two years of University coursework. For additional information, see "Radio-Television" in the index of this catalog.

Transfer Policy

Because the School of Telecommunications sets high academic standards and limits enrollment, students from other universities or programs at Ohio University wishing to transfer into the school must show strong academic performance over their last three quarters. Students with a 3.0 g.p.a. for the past 48 hours will be admitted at any time. Students with professional experience in the media who have between a 2.5 and 2.99 for the past 48 credit hours may file a petition. A limited number of these students will be selected for admission each quarter.

A student who transfers into the school must be enrolled for one academic year (three consecutive quarters) or the final 48 hours of credit earned to graduate from the program.

Bachelor's Degree In Telecommunications

General Requirements for All Majors

1 Arts and humanities 20 quarter hours, with at least eight hours of 300- to 400-level courses (or 200-level or above for language courses). Courses include Tier I freshman and junior composition with the balance of the hours chosen from art, art history, classical languages, comparative arts, English, film, modern languages, music, philosophy, and theater.

2 Social sciences 20 quarter hours, with at least eight hours of 300- to 400-level courses. Courses may be chosen from anthropology, classical archaeology, business, economics, history, international studies, management, marketing, political science, psychology, and sociology.

3 Communication sciences 20 quarter hours, with at least eight hours of 300- to 400-level courses (or 200-level or above for language courses). Courses may be chosen from classical languages, computer science, communication systems management, hearing and speech sciences, interpersonal communication, journalism, linguistics, modern languages, and visual communication.

4 Mathematics and/or natural sciences Tier I quantitative skills plus five quarter hours chosen from astronomy, biological sciences, chemistry, geology, mathematics, physical science, physics, physical geography, and plant biology.

University General Education Tier II courses and African American studies and University Professor offerings can be used to fulfill general requirements. All students must fulfill the Tier III requirement.

5 Telecommunications The following core courses are required of all majors:

TCOM 170	Media Perspectives	4
TCOM 200A	Telecomm. Writing and Production Planning	4
TCOM 206	Professional Options in Telecommunications	4
TCOM 453	Telecommunications Law and Regulations	4

Sequence Requirements

Telecommunications freshmen and sophomores are considered premajors (major code #BC5310). Generally, premajors are not permitted to enroll in telecommunications courses above the 300 level. To be eligible for transfer from premajor status to one of the four major sequences described below, a student must attain a B- (2.67) average in TCOM 170, TCOM 200A, and TCOM 206, and have a program of study that satisfies one of the following sequences as approved by the student's advisor. The program of study should be developed by the student while enrolled in TCOM 206.

Admission to one of the four sequences is required for graduation. A student must take at least 20 hours in telecommunications after transferring into a sequence.

Comprehensive Sequence

(Major code #BS5311)

This plan of study offers students a broad exposure to telecommunications and also provides for specialization outside the school. Program goals are developed jointly by student and advisor to provide adequate training in the specialization desired, and to ensure breadth of instruction in telecommunications. The following are required:

TCOM courses supporting program goals	32
Corollary courses supporting program goals (from no more than two departments with at least 20 hours at the 300- to 400-level)	35

Professional Audio Production Sequence

(Major code #BS5336)

Students are selected for this sequence each spring on a competitive basis. This plan of study is aimed at providing advanced skills in music recording, commercial production, audio drama and documentary, and experimental forms.

TCOM 200B	Audio Production	4
TCOM 308	Technical Bases of Telecommunications	4
TCOM 313	Field Audio Production	4
TCOM 413	Studio Audio Production I	4
TCOM 414	Studio Audio Production II	3
TCOM 415	Studio Audio Production III	4
Telecommunications electives with approval of advisor		9
Corollary courses supporting program goals		35

Suggested areas include music theory, history and literature, electronic music, hearing and speech sciences, business, film, electronics, and industrial technology.

Professional Management/Administration Sequence

(Major code #BS5312)

Students are selected for this sequence each spring on a competitive basis. This plan of study aims to provide an understanding of the management process in telecommunications and to develop managerial skills. The following courses are required:

TCOM 360	Telecommunications Mgt.	4
TCOM 459	Audience Research	4
TCOM 461	Telecommunications Financial Mgt.	4
TCOM 462	Broadcasting and Cable Sales Mgt.	4
Telecommunications electives with advisor approval		16
Corollary courses supporting program goals		35

These courses may be selected from accounting, business administration, business law, computer science, economics, finance, human resources management, management, and marketing. They must include ECON 103, ECON 104, and MGT 200 or 300.

Professional Video Production Sequence

(Major code #BS5313)

Students are selected for this sequence each spring on a competitive basis. This plan of study is aimed at providing advanced skills in video production with special emphasis on the creative responsibilities of production and direction. The following courses are required:

TCOM 200C	Video Production I	4
TCOM 308	Technical Bases of Telecommunications	4
TCOM 317	TV Studio Operations	2
TCOM 318	Video Production II	4
TCOM 319	Video Production III	4
TCOM 418	Producing for Video	4
Telecommunications electives with approval of advisor		10
Corollary courses supporting program goals		35

These courses may be selected from the visual or performing arts. Suggested areas include art, theater, film, music, graphic arts, photography, and visual communication.

Internships

Majors are encouraged to undertake an internship in the spring or summer quarter of the junior year, or during the senior year. An internship provides 8 hours of credit (four credits can apply to the major) for full-time work with an approved sponsor during an academic term. To qualify for an internship, a minimum accumulative g.p.a. of 2.7 is required. Students are required to initiate internships through the coordinator of industry relations.

Other Requirements and Standards

No course selected to fulfill any requirement may be taken on a pass/fail basis by a telecommunications major.

No course may be counted toward more than one type of requirement. For example, a course used to meet a general requirement may not also be used to meet a sequence requirement.

School of Visual Communication

Charles L. Scott, Director

The College of Communication offers an interdisciplinary visual communication degree with five specialized sequences. The school has been twice recognized as a Program of Excellence in photography and visual communication by the Ohio Board of Regents. Students can earn a Bachelor of Science in Visual Communication.

The program is designed to provide students with realistic and thorough, broad-based, professionally oriented training in visual communication and journalism, while providing the necessary liberal arts and cultural background for a strong educational foundation.

Intensive training is offered in picture editing/page design, photo communication for newspapers and magazines, photo illustration, time based multimedia, and informational graphics.

Goals of the School

The goals of the School of Visual Communication are (1) to equip students with the necessary skills to be successful in the media and the background and motivation to enable them to compete for leadership roles in the field; (2) to provide assistance and professional guidance in visual communication to working photographers, editors and other personnel, newspapers, press services, magazines, industrial-photographic departments, trade associations, multimedia and educational media production units, and cultural and scientific visual communicators; (3) to set high standards for visual integrity and communication ethics; and (4) to foster and promote scholarly research.

Internships

In an effort to provide practical training, the school requires students to work at least one paid internship for 10 weeks during their college careers. Any qualified student may compete for an internship. Many students have several internships before graduation.

In recent years, Ohio University visual communication students have worked on paid internships at newspapers and magazines and in advertising, photo illustration, and audiovisual production. Internships have been available in almost all states in the U.S. and in several international locations, including Brazil, France, Japan, and Norway.

Many Ohio University visual communication students are active members of the Ohio News Photographers Association and other state press photographer groups and are student members of the National Press Photographers Association, the Society for Newspaper Design, and the American Society of Magazine Photographers. Ohio University students have been successful in state and national photography competitions, and have done particularly well in the annual William Randolph Hearst foundation photojournalism competition, which is open to any student taking photojournalism courses in any of the more than 90 participating colleges and universities.

Bachelor of Science

Admission Requirements—B.S.V.C.

The School of Visual Communication admits only the best academically and professionally qualified students who normally rank in the top quarter of their high school classes. Students with lower class rankings are considered if they have outstanding SAT or ACT scores. In addition, students who demonstrate notable talent or experience or who have been historically underrepresented in the school will be given special consideration for admission. Students who do not meet the minimum requirements for admission (low SAT/ACT and/or class standing) may apply for admission based on talent. To apply, a student must submit a portfolio of 15 images by January 15 to the School of Visual Communication, Ohio University, Seigfried Hall 301, Athens OH 45701.

All students planning to become visual communication majors should enroll directly as visual communication majors entering the School of Visual Communication (premajor code #BS6930).

Transfer Students

The school sets high academic and professional standards, and enrollment is limited. All students wishing to transfer into the school must have earned at least 48 quarter hours (32 semester hours) with a g.p.a. of 2.5 or higher.

Students who may receive additional consideration include those with demonstrated professional talent or experience, and/or those coming from historically underrepresented groups.

These requirements apply to students transferring from other universities, from other programs within Ohio University, or from one program to another within the College of Communication. Students transferring from elsewhere in the University must satisfy the School of Journalism's English Proficiency Requirement before admission to the School of Visual Communication.

A student must be enrolled for one academic year (three consecutive quarters) or the final 48 hours in the school to earn a degree.

General Requirements—B.S.V.C.

To meet the accrediting standards of the American Council of Education in Journalism and Mass Communication, you must earn at least 94 quarter hours of credit in courses in the College of Arts and Sciences. Students earning the Bachelor of Science in Visual Communication degree meet this standard by fulfilling general and specialization area requirements.

School of Visual Communication majors are required to meet all General Education Requirements of Ohio University, including Tier I, Tier II, and Tier III. A thoughtful selection from the Tier II list in the *Undergraduate Catalog* will enable you to meet the requirements below while fulfilling many of Ohio University's Tier II requirements.

The general education requirements provide a liberal arts and sciences core for all students with the following courses:

- Anthropology 101 (1 qtr)
- Arts and Sciences electives (10 qtr hours)
- English composition (2 qtrs, one must be 305J, 307J, or 308J)
- History (2 qtrs)
- Philosophy 120 and 130 (2 qtrs)
- Political Science (2 qtrs)
- Psychology 101 (1 qtr)
- Sociology 101 (1 qtr)

Specialization Area Requirements

To the liberal base, which generally is the focus of the freshman year, visual communication students add courses in desired areas of specialization, meeting the requirement by completing the following:

- 1 A minimum of 36 hours in advanced courses in a single department within the College of Arts and Sciences.

2 A choice of either:

3 quarters of a foreign language **or** 3 quarters of natural sciences **or** Art History 211, 212, 213.

(If a student elects to take the Art History courses, he or she must take an additional 12 hours of Arts and Sciences electives to meet the 94-hour minimum for accreditation.)

No course may be counted for more than one type of requirement. For example, a course used to meet a general requirement may not also be applied to a specialization area or sequence requirement.

Visual Communication Core Requirements

All visual communication majors complete a basic core of 8 courses totaling 32 hours:

ART 101	Two-Dimensional Design	4
ART 102	Three-Dimensional Design	4
ART 128	Introduction to Drawing	4
	Studio art elective	4
AH 307	History of Photography	4
JOUR 133	Precision Language for Journalists	4
VICO 120	Intro to Visual Communication	4
VICO 220	Topic Seminar (Color Photography)	4
	Total core requirements	32

Standards

- 1 An average grade of 3.0 in VICO 120, 121, and 220.

2 Students must earn grades of at least 2.0 in JOUR 133, 231, 235, 325, 333, 411, 412, and in all professional courses (VICO, JOUR, PHOTO, and TCOM) to graduate.

3 To qualify for admission to JOUR 231, students must achieve at least 25 words per minute on a typing examination administered on the first day of the class.

4 No professional course may be taken more than twice.

Portfolio Review

Prior to the junior portfolio review (third quarter of the sophomore year), students will have completed freshman core courses (ART 101, 102, 128; JOUR 133; VICO 120, 220) and VICO 320. The visual communication faculty will evaluate portfolios and recommend whether students will be accepted into the major sequence of study. Students who are not accepted may reapply or select another area in which to present a portfolio. A form will be placed in each student's file indicating the result of the portfolio review.

Visual Communication Sequence Requirements

Picture Editing/Page Design (Major code #BS6921)

JOUR 231	News Reporting	4
JOUR 233	Information Gathering	3
JOUR 235	Picture Editing	3
JOUR 333	News Editing	4
JOUR 336	Adv. Pict. Editing	3
JOUR 411	Communication Law	3
JOUR 412	Ethics, Mass Media, and Society	3
VICO 220	Topic Seminar (Black and White Photo Tools)	4
VICO 311	Informational Graphics	5
VICO 320	Topic Seminar (Photojournalism)	4
VICO 323	Publication Layout and Design	3
VICO 426	Adv. Publication Layout and Design	3
	Total Sequence Requirements	44

Photo Communication (Major code #BS6922)

A choice of one of the following four courses:

ART 387	Photo Illustration—Fashion	5
ART 388	Photo Illustration—Product	5
ART 389	Photo Illustration—Editorial	5
ART 399	Photo Communication	5
ART 397	Photographic Communication	5
ART 398	Photo Communication	5
ART 494	Adv. Publications Photo	5
ART 495 or ART 496	Adv. Publications Photo	5
JOUR 231	News Reporting	4
JOUR 235	Picture Editing	3
JOUR 411	Communication Law	3
VICO 220	Topic Seminar (Black and White Tools)	4
VICO 320J	Topic Seminar (Photojournalism)	4
	total sequence requirements	43

Time Based Multi-Media
(Major code #BS6923)

ART 397	Photo Communication	5
ART 399	Photo Communication	5
ART 496	Adv. Publications Photo	5
JOUR	Information Gathering	3
TCOM 200A	Production Writing/Planning	4
TCOM 200B	Audio Production	4
TCOM 200C	Video Production	4
VICO 220	Topic Seminar (Black and White Tools)	4
VICO 320J	Topic Seminar (Photojournalism)	4
	total sequence requirements	38

Informational Graphics
(Major code #BS6924)

ART 151	Introduction to Graphic Design	4
ART 228	Basic Drawing	4

A choice of two of the following three courses:

ART 250	Graphic Design Principles	4
ART 251	Typography	4
ART 254	Lettering	4
JOUR 231	News Reporting	4
JOUR 233	Information Gathering	3
JOUR 235	Picture Editing	3
JOUR 411	Communication Law	3
JOUR 412	Ethics, Mass Media, and Society	3
VICO 311	Informational Graphics	5
VICO 323	Publication Layout and Design	4
VICO 412	Adv. Informational Graphics	5
VICO 426	Adv. Publication Layout and Design	4
	total sequence requirements	50

Photo Illustration
(Major code #BS6925)

ART 297	Intermediate Photography	5
ART 387	Photo Illustration—Fashion	5
ART 388	Photo Illustration—Product	5
JOUR 250	Advertising Principles	4
VICO 220	Topic Seminar (Black and White)	4
VICO 320	Topic Seminar (Photo Illustration)	4
VICO 427	Adv. Photo Illustration (Business Practices)	5
VICO 428	Adv. Photo Illustration (Studio Practices)	5
VICO 429	Adv. Photo Illustration (Applications)	5
	Choice of 8 hours of advisor approved business law, accounting, marketing courses	8
	total sequence requirements	50

College of Education

H. Wells Singleton, *Dean*

Karen J. Viechnicki, *Associate Dean*

Keith Hillkirk, *Assistant Dean*

The College of Education is a professional college whose major goal is to prepare individuals for future careers related to education. A wide range of programs is offered for teaching in elementary, middle, and high schools and for other educational positions, as well. The college provides graduate study in a variety of professional education fields.

All undergraduate programs include a broad base of general education, intensive preparation in the subject matter field, and professional emphasis that combines theory with practice. Each program is thus designed to prepare students to enter their future careers with a strong background in liberal arts, educational strategies and techniques, and a thorough understanding of teaching and learning processes.

The College of Education is accredited by the North Central Association of Colleges and Secondary Schools and the National Council for Accreditation of Teacher Education and is approved for teacher preparation by the State Department of Education of Ohio.

Bachelor of Science in Education

The Bachelor of Science in Education represents the completion of a program designed to allow the student to attain competence in three areas: (1) the principal academic fields; (2) the knowledge, skills, attitudes, and values underlying teaching; and (3) general/liberal education.

Besides University General Education Requirements, each student must complete the certification requirements established for the program he or she is following.

A student who plans to teach in the elementary grades enrolls in the College of Education. The curricula offered by the college meet the requirements of the State Department of Education and qualify a student to obtain a provisional certificate to teach in the elementary grades and kindergarten, depending upon the student's preparation.

A student who plans to teach middle school or high school, or special subjects (e.g., music, art, physical education) enrolls in the College of Education or other colleges within the University. These programs meet the requirements of the State Department of Education and qualify the student to obtain a provisional certificate to teach the subjects indicated on the certificate.

A student who plans to teach in special education classrooms enrolls in the College of Education. The curricula offered by the college meet the requirements of the State Department of Education and qualify a student to obtain a provisional certificate to teach in classrooms for the severe behavioral handicapped, specific learning disabled, multihandicapped, and developmentally handicapped.

Revised Programs

All undergraduate teacher education programs at Ohio University have been revised to conform to state standards for certification issued by the State Department of Education of Ohio. The programs and courses are included in this catalog.

These programs and courses apply to all students entering Ohio University in the 1994-95 school year and in subsequent academic years, but are subject to change to conform to any revisions set forth by the State Department of Education. Students with questions about their program requirements may contact their advisors and/or Student Services, Ohio University, McCracken Hall 124, Athens OH 45701-2979, telephone 614-593-4420.

Selective Admission and Retention

The college has a selective admission and retention process that applies to all students who intend to complete the teacher preparation program through Ohio University. Decisions regarding the retention of teacher education students in certification programs will be made through a continuous quarterly evaluation of progress in coursework, clinical experiences, and field-based experiences. Evaluation criteria will be directly related to the specific knowledge, skill, attitude, and value objectives associated with each experience. There are three selection phases in this process, two of which are described below. The third phase is detailed under Student Teaching. A student may elect to appeal a decision regarding admission or retention by filing an appeal with the Credential Review Committee. Appeal forms and related information, as well as a complete description of the selective admission and retention policies and procedures, may be obtained from Student Services, McCracken Hall 124.

Admission to Professional Education

Students must be admitted to professional education before taking any of the following: elementary education courses (any EDEL courses numbered 200 or above); special education courses (any EDSP courses in Block II or above); or secondary education courses (any EDMS or EDSE courses).

Application for admission to professional education should be made during the third quarter of the freshman year. Athens campus students must attend a group meeting arranged by Student Services, and regional campus students should check with Student Services or the dean's office for relevant information. The following criteria must be met the quarter before the student applies for admission:

1 Completion of 45 quarter hours of credit with an overall grade-point average (g.p.a.) of 2.75.

2 A 2.75 g.p.a. and no grade below a C is acceptable toward completion of the following courses:

a PSY 101—General Psychology

b Any required remedial work in English composition and mathematics

c All Tier I freshman composition and mathematics, and INCO 103.

3 Satisfactory performance on the Speech and Hearing Proficiency Examination. This examination is offered through the Speech and Hearing Clinic, Lindley Hall, on the Athens campus or by approved individuals at the regional campuses.

4 Satisfactory performance on the Preprofessional Skills Tests (PPST). Students must achieve scores of 173 or above in writing and mathematics and 174 or above in reading. Any score less than these is unacceptable, and the student may not enroll in education courses. **or** Satisfactory performance on ACT or SAT. Students must achieve scores of 21 or better on the ACT and/or 950 or better on the SAT.

5 Submission of a statement confirming that the student's record is clear of any felony convictions, obtained from Student Services, McCracken Hall 124.

6 Submission of results of the tuberculosis skin test (administered by Hudson Health Center or other appropriate office)

7 Students will be screened and recommended by a representative appointed by faculty and must be admitted to Professional Education before taking EDEL courses numbered 200 or above, EDSP courses in Block II or above, or any EDSE courses.

8 Submission of two personal references.

A student may elect to appeal a decision regarding admission or retention by filing an appeal with the Credential Review Committee. Appeal forms and related information may be obtained from Student Services, McCracken Hall 124.

Admission to Advanced Standing in Professional Education

Students must be admitted to advanced standing prior to taking any of the following courses: elementary education courses (any EDEL courses numbered 300 or above); special education courses (any EDSP courses in Block III or above); or secondary education courses (any EDSE courses numbered 300 or above). Methods courses can be taken no more than twice.

Application for advanced standing in professional education should be made at the end of the third quarter of the sophomore year. Athens campus students must attend a group meeting arranged by Student Services, and regional campus students should check with Student Services or the dean's office for relevant information. The following criteria must be met the quarter before the student applies:

1 General requirements

a Completion of 90 quarter hours of credit with an overall g.p.a. of 2.75.

b Satisfactory reports from:
(1) TB test, from Hudson Health Center or other appropriate office.
(2) Student Judiciaries
(3) Faculty Advisor

c A 2.75 g.p.a. and no grade below a C in the following courses:

(1) Tier I freshman composition requirement
(2) INCO 103, Public Speaking
(3) Tier I quantitative skills requirement

d Students will be screened and recommended by a representative appointed by faculty and must be admitted to advanced standing before taking any of the following: EDEL courses numbered 300 or above, EDSP courses in Block III or above, EDSE courses numbered 300 or above.

2 Specific requirements for elementary education

a Completion of the following courses with a 2.75 g.p.a. and a minimum grade of C in each:

(1) EDCI 275 or PSY 275
(2) EDEL 200 or PSY 273 or HCCF 160
(3) EDSP 271
(4) EDEL 200L

b A student may elect to appeal a decision regarding admission or retention by filing an appeal with the Credential Review Committee. Appeal forms and related information may be obtained from Student Services, McCracken Hall 124.

c A minimum grade of C is required for all EDEL courses.

3 Specific requirements for special education

a Completion of all courses in Blocks I and II with a 2.75 g.p.a.

b Each course in Blocks I and II must be completed with a grade of C or better.

c A minimum grade of C is required for all EDSP courses.

4 Specific requirements for middle, secondary, and special fields (K-12) education.

a Completion of the following courses with a g.p.a. of 2.75 and a minimum grade of C in each:

(1) EDSE 250, or EDMS 250
(2) EDSE 250L, or EDMS 250L
(3) EDSE 270, or EDMS 270
(4) EDSE 270L, or EDMS 270L
(5) EDCI 275 or PSY 275

b A 2.75 accumulative g.p.a. in each teaching field for which certification is being sought.

5 Specific requirements for hearing and speech therapy

a Completion of the following courses with a g.p.a. of 2.75 and a minimum grade of C in each:

(1) EDCI 275 or PSY 275
(2) EDEL 200L and EDEL 200, or PSY 273 or HCCF 160
(3) EDSP 270
(4) EDSP 271 or PSY 376

b A 2.75 accumulative g.p.a. in all hearing and speech science courses completed.

c Contact the undergraduate coordinator in Hearing and Speech Sciences for more information.

6 Specific requirements for early childhood/primary

a Completion of the following courses with a g.p.a. of 2.75 and a minimum grade of C in each:

(1) HCCF 160
(2) EDSP 271
(3) EDCI 275 or PSY 275

b A 2.75 accumulative g.p.a. in all early childhood/primary courses completed.

Athens and regional campus students applying for advanced standing should also apply for EDCI 401, Advanced Field Experience-Multicultural. All students must apply for student teaching by December 1 prior to the year of student teaching. Applications are available from McCracken 124 for Athens students and from Student Services at regional campuses. All applications must be turned in at the Athens Student Services in McCracken Hall 124.

School of Applied Behavioral Sciences and Educational Leadership

The School of Applied Behavioral Sciences and Educational Leadership offers only graduate programs. However, some undergraduate courses are available in career counseling and human relations. Students interested in graduate programs should contact Student Services, McCracken Hall 124, telephone 614-593-4420.

School of Curriculum and Instruction

The School of Curriculum and Instruction comprises four major program areas: elementary education, middle school education, secondary education, and special education. There are validations and endorsements in selected areas. The school provides the opportunity for students admitted to professional education to pursue undergraduate courses leading to teacher certification in the state of Ohio. Listed below are program descriptions and course requirements for each of the certification and validation patterns offered.

A junior or senior who has a 3.0 accumulative g.p.a. and is able to schedule 15 to 18 hours of independent study in the school may be eligible for school honors. Honors work extends beyond the required teacher education course sequences.

Elementary Education Program

(Major code #BS6212)

To receive a B.S.Ed. degree and certification in elementary education, students must complete the total program in elementary education. Upon completion of the program and after passing the National Teacher's Exams, students are eligible for a four-year provisional teaching certificate for teaching in grades one to eight. Kindergarten certification may be obtained only by completing the early childhood/primary sequence.

Required General Education Courses

PSY 101	Gen. Psych.	5
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English 21-23

Freshman and junior English composition courses taken to satisfy the University English composition requirement (see General Education Requirements in the Graduation Requirements section of this catalog) may be used toward completion of these hours.

Required:

INCO 103	Pub. Speaking	4
LING 270	Nature of Lang.	5
EDEL 321	Children's Lit.	3
EDEL 321L	Field/Clinical Exp.	1
ART 360	Art for Elementary Teachers	6
MUS 160	Music Fundamentals	3
MUS 161	Mus. for Classroom Teachers	3

Natural Science 12

All students must complete at least 12 quarter hours of science as follows (one course in each area):

- Biological (BIOL 101, PBIO, or BIOS 170)
- Physical (CHEM, PSC 101 or 10S, or PHYS)
- Earth (GEOL 101, GEOG 101, PSC 100, and PSC 140L)

All courses taken to complete the natural sciences requirement must contain a laboratory component.

Mathematics 10

MATH 120	Elem. Topics in Math*	4
MATH 121	Elem. Topics in Math*	3
MATH 122	Elem. Topics in Math*	3

*These courses are recommended; however, any mathematics courses numbered above 120 and equaling ten quarter hours are acceptable (except MATH 151).

Social Studies 27

Each student is required to complete at least 27 quarter hours and a minimum of seven courses in social studies. Social studies is defined as any history, political science, economics, sociology, anthropology, social welfare, geography, or economic education course. Each student must complete the following:

- GEOG 121
- EDCE 410
- and one of the following:
HIST 211 or 212 or 213
or POLS 101 or 102

Physical Education

HLTH 202	Health Sci. and Lifestyle Choices	4
HPES 270	Teaching Phys. Ed	3

No more than six hours of HSC activity courses may be counted toward the degree, and none count in general education.

Students must also complete Ohio University's General Education Requirements (see General Education Requirements section of this catalog) and are urged to consult with their advisors to plan to meet both sets of requirements.

Professional Sequence

The following professional courses are required of all elementary education majors. To be eligible to enroll in these courses, students should note the prerequisites in the Courses of Instruction section of this catalog.

EDEL 200	Studies of Children	4
EDEL 200L	Field/Clinical Exp.	1
EDSP 271	Intro Excep. Children	4
EDCI 275 or PSY 275	Lrng. Process Classrm. Educational Psy.	5 4
EDEL 310	Teach. Lang. Arts Elem. Sch.	3
EDEL 310L	Field/Clinical Exp.	1
EDEL 311	Teach. Read. Elem. Sch.	4
EDEL 311L	Field/Clinical Exp.	1
EDEL 330	Teach. Math in Elem. Sch. K-3	2
EDEL 330L	Field/Clinical Exp.	1

EDEL 331	Teach. Math in Elem. Sch. 4-8	2
EDEL 331L	Field/Clinical Exp.	1
EDEL 340	Teach. Science Elem. Sch.	4
EDEL 340L	Field/Clinical Exp.	1
EDEL 350	Teach. Soc. Studies Elem. Sch.	3
EDEL 350L	Field/Clinical Exp.	1
EDEL 372	Managing Elem. Classroom	2
EDEL 460	Child and the Curriculum	4
EDM 332	Microcomputer App. in Ed.	4
EDM 480	Intro to Educ. Media	4
EDCI 401	Advanced Field Exp-Multicultural	2

Thirty-Hour Concentration

A thirty-hour concentration is required in the program for early childhood/primary and elementary. This concentration must be in the area of one of the following: humanities, mathematics, natural sciences, or social sciences. An area of concentration may contain ten quarter hours that are presently used to meet the General Education Requirements in one of the following areas: humanities, mathematics, natural sciences, or social sciences. An area of concentration must contain ten quarter hours at the 300 level or above. Courses for an area of concentration must be selected from a pre-approved listing of courses that are acceptable as possible concentration courses.

Note: special education or early childhood/primary education cannot be used as an area of concentration.

Professional Laboratory Experience

EDPL 461 and 462	Stu. Teaching in Elem. School	13
EDPL 465	Stu. Teaching Seminar	3

These three courses are taken concurrently in one quarter and constitute the student teaching requirement. A person should make an application for student teaching by December 1 of the year prior to the year in which student teaching is to be taken. For example, anyone doing student teaching during any of the three quarters of the school year 1995-96 should apply by December 1, 1994. For further information, contact Student Services, McCracken Hall 124.

Early Childhood/Primary

(Major code #BS6263)

This program prepares students to meet the state of Ohio teacher certification requirements as preschool through grade three teachers.

The current program in preschool teaching is part of the School of Human and Consumer Sciences in the College of Health and Human Services, and the current program in elementary education is part of the School of Curriculum and Instruction. This program provides for each student to choose the school and college in which he or she wishes to enroll; therefore, a student can earn either a Bachelor of Science through the College of Health and Human Services or a Bachelor of Science in Education. In either case, the

student follows the same program and earns the same certificates upon receiving passing scores on the National Teacher's Exam.

Students are advised that the early childhood/primary program is a dual concentration and is likely to require at least one additional quarter beyond the 12 quarters ordinarily needed for a bachelor's degree. Students in the program should schedule carefully and work closely with their advisors.

Required General Education Courses

Students also must complete Ohio University's General Education Requirements (see General Education Requirements section of this catalog) and are urged to consult with their advisors to plan to meet both sets of requirements.

Science and Mathematics

BIOL 101	Principles of Biology	5
or BIOS 103	Human Biology	5
MATH 120, 121, 122	Elementary Topics in Math*	10

*These math courses are recommended, however, any math courses numbered above 120 (except MATH 151) and totaling 10 hours would be acceptable, except MATH 151.

Comparative Arts and/or Philosophy

MUS 160	Music Fundamentals	3
MUS 161	Music for Classroom Teachers	3
or MUS 262	Music for Early Childhood	3

Social Sciences

GEOG 121	Elements of Human Geography	4
PSY 101	General Psychology	5
SOC 101	Intro to Sociology	5

English and/or Foreign Language

Each student is required to complete at least two courses in English and/or foreign language. The two courses need not be taken in the same field. Freshmen and junior English composition courses taken to satisfy the University General Education Tier I requirements may be used toward completion of these hours.

In addition, students must complete INCO 103 to be admitted to Professional Education within the College of Education.

Thirty-Hour Concentration

A thirty-hour concentration in one of the following areas is required: humanities, mathematics, natural sciences, or social sciences. An area of concentration may contain 10 quarter hours that are presently used to meet the General Education Requirements in one of these areas. An area of concentration must contain at least 10 quarter hours at the 300 level or above. Courses for an area of concentration must be selected with approval of the student's advisor.

Major Requirements

ART 360	Art for Elementary Teachers	6
ECON 103	Principles of Microeconomics	4
or ECED 346	Economics in the Curriculum	4-5
EDCI 275	Learning Processes in Classroom	5
or PSY 275	Educational Psychology	4
EDCE 410	Human Relations	3
EDCI 401	Advanced Field Exp- Multicultural	2
EDEL 200, 200L	Studies of Children and Lab	5
or HCCF 160	Intro to Child Development	4
or PSY 273	Child and Adolescent Psychology	4
EDEL 306	Kindergarten-Theory and Methods	6
EDEL 310, 310L	Teach Lang Arts Elem. School and Lab	5
EDEL 311, 311L	Teach Reading Elem. School and Lab	5
EDEL 321, 321L	Children's Literature and Lab	4
EDEL 330, 330L	Teach Math Elem. School (K-3) and Lab	3
EDEL 340, 340L	Teach Science Elem. School and Lab	5
EDEL 350, 350L	Teach Social Studies Elem. School and Lab	4
EDEL 372	Managing Elementary Classrooms	2
EDEL 460	The Child and the Curriculum	4
EDM 332	Microcomputer App. in Education	4
EDM 480	Intro to Educational Media	4
EDPL 461, 462,	Student Teaching	13
EDPL 465	Student Teaching Seminar	3
EDSP 160	Field Experience-Special Education	1
EDSP 271	Intro to Ed. of Except Children and Youth	4
HCCF 400	Senior Seminar	3
HCCF 464	Early Childhood Practicum	6
HCCF 360	Human Sexuality	4
HCCF 361	Principles of Preschool Guidance	4
HCCF 363	Creative Exp. w/ Preschool Children	4
HCCF 364	Premath and Science Exp. w/Young Children	4
HCCF 371	Family Development	3
Select 2 from the following:		
HCCF 462A	Pluralistic Life Styles	3
HCCF 462B	Parenthood	3
HCCF 462C	Middle Childhood	3
HCCF 463	Preschool Administration	5
HCCF 465	Parent Education	4
HCFN 128	Intro to Nutrition	4
HLTH 202	Health Sciences and Lifestyle Choices	4
or HLTH 227	First Aid	3
HPES 270	Teaching of Physical Education	3
LING 270	Nature of Language	5
SOC 201	Contemporary Social Problems	4
or SOC 223	American Society	4
Physical science course with laboratory component		4-5
U.S. history or political science course		4

Middle School Education Programs

To receive a B.S. Ed. degree in middle school education, students must complete one of the following programs and achieve a passing score on the National Teacher's Exam prior to certification. Each program curriculum shall include coursework well distributed over two academic concentrations. For example, academic concentration combinations can come from language arts and reading, mathematics, science, and social studies, or other combinations such as mathematics/science or language arts/social studies. Upon completing the program and achieving a passing score on the appropriate fields of the National Teacher's Exam, students are eligible for a four-year provisional teaching certificate for grades 4-9.

All students seeking certification in the area of middle school education must meet departmental prerequisites for all classes. For example, students must take and pass PSY 101 with a minimum grade of C before taking PSY 275; students must take and pass MUS 160 with a minimum grade of C before taking MUS 161; students must take and pass MATH 163A with a minimum grade of C before taking MATH 163B.

Required General Education Courses

All students in middle school education must complete 45 hours of general education coursework to be eligible for graduation with a B.S.Ed. degree and teacher certification.

Please note that students also must complete Ohio University General Education Requirements (see General Education Requirements in the Graduation Requirements section of this catalog) and should consult with their advisor to plan a course of study that will meet both sets of requirements.

The breakdown of education course requirements is as follows:

Science and Mathematics

Each student is required to complete at least two courses, one in science and one in mathematics. Science courses are biological sciences with lab or physical science with lab. MATH 120, 121, and 122 are recommended; however, any mathematics course numbered above 120 (except MATH 151) is acceptable.

Comparative Arts and/or Philosophy

Each student is required to complete at least two courses in this area. The two courses need not be in the same field. Possibilities include any courses in the Dept. of Philosophy and the School of Comparative Arts; HUM 107, 108, 109, 307, 308, and 309; theater history courses; art history courses; School of Art courses except for ART 360, 461, 462; School of Music courses except for music education courses, music therapy courses, and the one- or two-hour participation courses.

Note: science majors are required to take PHIL 216, Philosophy of Science, 3 hrs.

Social Sciences

Each student is required to complete at least two courses in social sciences. The two courses need not be in the same field. PSY 101, which is required, is included as one of the social sciences courses. Other possibilities include any course in anthropology, economics, economic education, geography, history, political science, psychology (except PSY 121, 226, 275, 314, and 321), social work, and sociology.

English and/or Foreign Language

Each student is required to complete at least two courses in English and/or a foreign language. The two courses need not be in the same field. INCO 103, which is required in this area, is counted as one of the two courses needed. Other possibilities in this area include all English courses except ENG 451 and 452; any linguistics courses; any foreign language courses except ML 410 and 445; HUM 107, 108, 109, 307, 308, and 309. (These humanities courses may NOT count toward General Education Requirements in both the English and/or foreign language field AND the comparative and/or philosophy field.)

Freshman and junior English composition courses taken to satisfy the University composition requirement (see General Education Requirement section of this catalog) also may be used toward completion of these hours.

If the total coursework from each of the above fields does not add up to 45 hours, then a student must elect sufficient hours in one or a combination of the above areas to bring the total hours in general education courses to 45 hours.

If a middle school education student's major and second teaching field is the same as one of the above areas, then up to 18 hours of the major and second teaching field may meet requirements for the corresponding general education field, as well as in the academic major and second teaching field. For example, if the student's major is language arts and reading, then 10 hours of English may count toward the 45 hour total of General Education Requirements and also toward the English and/or foreign language field above. The same concept applies to mathematics, science, and social studies.

No more than three hours of HPES activity courses may be counted toward the degree except for majors or minors in physical education, and none may count toward general education.

Reminder: all students pursuing teacher education programs at Ohio University are subject to the Selective Admission and Retention Program in teacher education. Criteria and procedures are available in Student Services, McCracken Hall 124.

Field Experience

All field experience must be undertaken in a middle school setting. The field experience activities include observation, participation, multicultural field, and student teaching.

Middle School Certification

Professional Requirements: 48-50

All professional courses are taught with a middle school focus.

EDCI 275	Lrng. Process in the Classroom	5
or PSY 275	Educational Psy.	4
EDMS 351*	Middle Sch. Instr. Pro. of Curr.	5
EDMS 250*	Analysis Teacher Char. and Tch. Tasks	4
EDMS 250L*	Field Experience	2
EDMS 270*	Stud. of Lrng. Dev/Except	3
EDMS 270L*	Stud. of Lrng. Field Exp.	1
Two methods courses, one in each major field		6-8
(If methods professor does not require and certify 30 clock hours of field, laboratory, and clinical experience, students also must register for EDPL 360, Field Experience in Middle School, to obtain the required field contact hours.)		
EDM 480	Intro to Educ. Media	4
EDCI 401	Advanced Field Exp-Multicultural	2
EDSE 420	Tch. Read. in Content Area	4
and EDSE 420L	Field Exp.	1
or EDEL 311	Teach/Read in Elem. School	4
AND EDEL 311L	Teach/Read Elem. School Lab/Field	1
EDMS 412*	Middle School Education/Curriculum	4
EDCI 480	Teacher, School, and Soc.	4
EDM 332	Micro. App. in Education	4
EDCE 410	Human Relations (recommended as an elective)	3

*Subject to change in title and number. Students are urged to preregister for their professional courses and field experiences so that proper field experience placements in their major can be identified ahead of time. Students need to be enrolled in a field experience while taking EDMS 412.

Professional Laboratory Experience

EDPL 463, 464	Student Teach. in Middle School	13
(EDPL 461 may be substituted for EDPL 464 where appropriate.)		
EDPL 465	Student Teaching Seminar	3

These three courses are taken concurrently in one quarter and constitute the student teaching requirement. A person should make application for student teaching by December 1 of the year prior to the year in which student teaching is to be done. Students must request placement in an approved middle school. (Grades six, seven, and eight are acceptable for early field only when no middle school is available.) For example, anyone doing student teaching during any of the three quarters of the 1995-96 school year should apply by December 1, 1994. For further information, contact Student Services, McCracken 124.

Major Requirements

Select a major from one of the following four areas of concentration:

Language Arts and Reading Emphasis: 49-50 (Major code #BS6851)

Select two from the following: 8

ENG 201	Crit. App. to Fiction	4
ENG 202	Crit. App. to Poetry	4
ENG 203	Crit. App. to Drama	4
ENG 341	American Literature	4
ENG 342	Eng. and Continental Lit.	4
ENG 353 or ENG 351	Structure of Amer. English History of English Language	4
ENG 308J	Advanced Composition	4
ENG 321 or ENG 322	Amer. Lit. - Beginning to 1865 Amer. Lit. - 1865 to 1918	4
ENG 331	Std. Asian. Lit.	4
LING 270	Nature of Language	5
EDEL 321/321L or ENG 456	Children's Lit. and Field Exp. Read. in Children's Lit.	5
EDEL 411	Diag/Treat. of Read Disabilities	4
EDEL 412	Reading Lab Practicum	4

Social Studies Emphasis: 45 (Major code #BS6850)

Select two from the following: 8

HIST 101	Western Civ.	4
HIST 102	Western Civ.	4
HIST 103	Western Civ.	4
ECON 103	Prin. of Microeconomics	4
GEOG 101	Elements of Physical Geog.	5
GEOG 121	Cultural Geography	4
HIST 131	Intro to Third World	4
HIST 317B	Ohio History Since 1851	4
POLS 101	Amer. National Gov't	4
POLS 103	U.S. in World Affairs	4

Select two of the following U.S. history courses: 8

HIST 211	Amer. History to 1828	4
HIST 212	Amer. History - 1828 to 1900	4
HIST 213	Amer. History - 1900 to Present	4

Mathematics Emphasis: 43 (Major code #BS6852)

CS 230	Computer Programming	5
MATH 263 A, B, C, D	Analytic Geom. and Calc.	16
MATH 250B	Finite Math	4
MATH 211	Linear Algebra	4
MATH 306	Foundations of Mathematics	4
MATH 330 A, B	Foundations of Geometry	6
	MATH elective, 200 level and up	4

Science Emphasis: 53 (Major code #BS6853)

PBIO 110	Intro to Plant Biology	6
BIOS 171	Intro to Zoology	5
PBIO 111	Intro to Plant Biology	6
CHEM 121	Prin. of Chemistry I	4
CHEM 122	Prin. of Chemistry II	4
GEOG 201	Environmental Geography	4
GEOL 101	Intro Geology	5
GEOL 221	Earth and Life History	4
GEOL 231	Water and Pollution	4
PHIL 216	Philosophy of Science (may double count in general ed.)	3
PHYS 201	Intro to Physics	5
PSC 100D	Moon and Planets: Solar System	4

Second Area of Concentration

Select from one of the following four areas of concentration:

Language Arts Minor: 38

ENG 201 or ENG 202 or ENG 203	Crit. App. to Fiction Crit. App. to Poetry Crit. App. to Drama	4
ENG 341	American Literature	4
ENG 342	Eng. and Continental Lit.	4
ENG 353 or ENG 351	Structure of Amer. English History of English Language	4
ENG 308J or ENG 307J	Advanced Composition Writing and Research in Eng. Study	4
LING 270	Nature of Language	5
EDEL 321/321L or ENG 456	Children's Lit. and Field Exp. Read. in Children's Lit.	5/4
EDEL 411	Diag/Treat. of Read Disabilities	4
EDEL 412	Reading Lab Practicum	4

Social Studies Minor: 33

Select two of the following: 8

HIST 101	Western Civ.	4
HIST 102	Western Civ.	4
HIST 103	Western Civ.	4
GEOG 101	Elements of Physical Geog.	5
HIST 131	Intro to Third World	4
POLS 101	Amer. National Gov't	4

Select two of the following: 8

HIST 211	Amer. History to 1828	4
HIST 212	Amer. History - 1828 to 1900	4
HIST 213	Amer. History - 1900 to Present	4
HIST 317B	Ohio History Since 1851	4

Mathematics Minor: 34-36

CS 230	Computer Programming	5
MATH 163A	Intro to Calculus	4
MATH 163B or MATH 263A	Intro to Calculus Analytic Geom. and Calc.	3 4
MATH 211 or MATH 410	Linear Algebra Matrix Theory	4 4
MATH 250B	Finite Math	4
MATH 330A	Foundations of Geometry	3
MATH 306	Foundations of Mathematics	4

Select two of the following: 8

MATH 300	History of Mathematics	4
MATH 307	Intro to Number Theory	4
MATH 314	Elem. Abstract Algebra	4
MATH 330B	Foundations of Geometry	3

Science Minor: 38

PBIO 110	Intro to Plant Biology	6
BIOS 171	Intro to Zoology	5
PBIO 111	Intro to Plant Biology	6
CHEM 121	Prin. of Chemistry I	4
GEOL 101 or GEOG 101	Intro to Geology Elem. of Phys. Geography	5 5
GEOG 201	Environmental Geography	4
PHYS 201	Intro to Physics	5
PSC 100D	Moon and Planets: Solar System	4

Methods Course Requirements

All students must select one methods course in their major emphasis and one methods course in their minor concentration. Students must take one elementary methods course and one secondary methods course.

Language Arts Methods Courses: 5

EDEL 310/310L	Teaching Lang. Arts in Elem. Sch.	5
or ENG 451	Teach. Lang. and Comp., Secondary Ed	3
with EDPL 360	Field Experience	2
or ENG 452	Teaching Lit., Secondary Ed	3
with EDPL 360	Field Experience	2

Social Studies Methods Courses: 3-4

EDEL 350/350L	Teaching Soc. Std. in Elem. Sch.	4
or EDSE 479	Teaching Soc. Std. in MS and HS	3

Mathematics Methods Courses: 3-4

EDEL 331, 331L or MATH 320	Teaching Math in Elem. Sch.	3
	Teaching Math in Secondary Sch.	4

Science Methods Courses: 4-5

EDEL 340, 340L or EDSE 472, 472L	Teach. Science in Elem. Sch.	5
	Teach. Earth Science, Sec. Ed.	4
or EDSE 47B, 478L	Teach. Physical Science, Sec. Ed.	4
or PBIO 368	Teach. Biology, Sec. Ed.	4

Secondary Education Programs

Professional Requirements: 35-38

EDCI 275	Learning Processes in the Classroom	5
or PSY 275	Educational Psych.	4
EDSE 250	Analysis of Teacher Char. and Teacher Tasks	4
EDSE 250L	Field Experience	2
EDSE 270	Studies of the Learner: Dev. and Exceptionality	3
EDSE 270L	Field Experience	1
EDSE 351	Instructional Proc. and Curriculum	5
EDCI 401	Advanced Field Exp: Multicultural	2
EDCI 480	Teacher, School, and Society	4
EDM 480	Intro to Educational Media Methods in Major Field	4 3-6

(If a methods professor does not require and certify 30 clock hours of field, laboratory, and clinical experience, students must also register for EDPL 360, Field Experience in Elementary or Secondary Schools, to obtain the required field contact hours.)

EDSE 420	Teaching Reading in the Content Areas	4
EDSE 420L	Field Experience	1
EDM 332	Microcomputer App. in Education, is highly recommended as an elective.	

Students are urged strongly to preregister for their professional courses so that proper field experience placements in their major area can be identified ahead of time. Students seeking to add L (field experience) courses after a quarter begins may be required to wait until a field placement is open.

Professional Laboratory Experience

EDPL 463 and 464 Stu. Teaching in Second. Schools	13
(EDPL 461 may be substituted for EDPL 464 where appropriate)	
EDPL 465 Stu. Teaching Seminar	3

These three courses are taken concurrently in one quarter and constitute the student teaching requirement. A person should make an application for student teaching by December 1 of the year prior to the year in which student teaching is to be done. For example, anyone doing student teaching during any of the three quarters for the school year 1995-96 should apply by December 1, 1994. For further information contact Student Services, McCracken 124.

Honors Tutorial Program in Secondary Education

Students admitted to the Honors Tutorial College in an academic major may become certified in secondary education by combining two sets of tutorial experiences: one in the academic area and one in secondary education. Students completing both tutorial programs, in addition to other certification requirements, receive secondary teaching certification and a bachelor's degree from the Honors Tutorial College. For further information, contact Dr. Edward Stevens, Coordinator, Honors Tutorial Program in Secondary Education.

Required General Education Courses

All students in secondary academic or special fields in teacher education must complete 45 hours of general education courses to be eligible for graduation with a B.S.Ed. degree or teacher certification or both.

Students must also complete Ohio University's General Education Requirements (see General Education Requirements section of this catalog) and are urged to consult with their advisors to plan to meet both sets of requirements.

All students seeking certification in the area of middle school education must meet departmental prerequisites for all classes. For example, students must take and pass PSY 101 with a minimum grade of C before taking PSY 275; students must take and pass MUS 160 with a minimum grade of C before taking MUS 161; students must take and pass MATH 163A with a minimum grade of C before taking MATH 163B.

The breakdown of these education course requirements is as follows:

Science and Mathematics

Each student is required to complete at least one course in science and one course in mathematics. Appropriate science courses are astronomy, chemistry, physics, plant biology, biological science, physical science, geological sciences, and PSY 226, 312, and 314. Any course in the Department of Mathematics, except 101 or 320, is acceptable for the mathematics requirement. Also, PSY 121 counts toward the mathematics requirement. Computer science courses do not satisfy this requirement.

Comparative Arts and/or Philosophy

Each student is required to complete at least two courses in this area. The two courses need not be in one field. Possibilities include any courses in the Department of Philosophy; School of Comparative Arts; HUM 107, 108, 109, 307, 308, and 309; theater history courses; Art History; Art except for ART 360, 461, 462; School of Music courses except for music education courses, music therapy courses, and the one or two-hour participation courses.

Social Sciences

Each student is required to complete at least two courses in social sciences. The two courses need not be in the same field. PSY 101, which is required, is included as one of the social sciences courses. Other possibilities include any course in anthropology, economics, economic education, history, political science, sociology, social work, geography, and psychology, **except** PSY 121, 226, 275, 312, and 314.

English and/or Foreign Language

Each student is required to complete at least two courses in English and/or foreign language. The two courses need not be in the same field. Freshman and junior English composition courses taken to satisfy the University English composition requirement (see General Education Requirements in the Graduation Requirements section of this catalog) may be used toward completion of these hours. Either INCO 103 or THAR 110Y is a specific requirement in this area and is counted as one of the two courses needed. Possibilities in this

area include all English courses **except** ENG 451 and 452; any linguistics courses; any foreign language courses **except** ML 410 and 445; HUM 107, 108, 109, 307, 308, and 309. (These humanities courses may NOT count toward the General Education Requirements in both the English and/or foreign language field **and** the comparative arts and/or philosophy field.)

If two courses in each of the above fields do not add up to a total of 45 hours, then a student must elect sufficient hours in one or a combination of the above areas to bring the total hours in general education courses to 45 hours.

If a student's major or second teaching field is the same as one of the above areas, then 10 hours of the major or minor may be counted toward the corresponding general education field as well as the major or minor. For example, if the student's major is English, 10 hours of English may count toward the 45-hour total of general education courses and toward Field 4, above, which is English and/or Foreign Language.

No more than six hours of HSC, HSW, and/or HSM activity courses may be counted toward the degree except for majors or minors in physical education and recreation, and none may count in general education.

Program Requirements

Art Education

(Major code #BS6201)

Regardless of the college of the University from which a student graduates, to achieve certification through Ohio University to teach art, the following program must be completed, general education requirements met, and passing scores earned on the National Teacher's Exam. This program leads to a four-year provisional special field certificate in art allowing the holder to teach art in grades K-12 inclusive.

To become an art education major, a student must submit a portfolio of studio work for review at the end of the sophomore year. Portfolio reviews are held the first week of May. The faculty of the art education area will review portfolios and will accept as majors those students whose portfolios are deemed satisfactory.

Students interested in majoring in art education are encouraged to meet with advisors in both the College of Education and the School of Art.

Major Requirements:

A Complete, for the state certification requirement, at least 76 quarter hours of studio courses including:

1 ART 101 Two-Dimensional Design (4)

2 ART 102 Three-Dimensional Design (4)

3 ART Introduction to Drawing (4)

4 ART 254 Lettering (4)
Note: art education courses (ART 360, 461, and 462) do not count toward the art major requirements above. An additional foundation course, ART 100, Seeing

and Knowing the Visual Arts, is required and does not count toward the studio hours.

B To achieve proficiency in studio work, the art education major must have two concentrations. In the first, a student must complete at least five courses at the 200 level or above and in the second area, a student must complete at least four courses at the 200 level and above.

C Complete at least 24 hours of art history and/or comparative arts. All students must complete the History of Art survey

courses, AH 211, 212, and 213.

The additional 12 hours may be earned through any art history course or comparative arts course, excluding CA 270, 271, 272, 321, 322, 323, 470, 471, 472.

D Two methods courses are required prior to teaching:

1 ART 461 Art Experience in Elem. School (3)

2 ART 462 Teaching in the Second. School (3)

E Secondary education professional and general education requirements must be completed.

Biological Sciences

(Major code #BS6256)

A student may earn either a B.S.Ed. in the College of Education or an A.B. or B.S. in biological sciences or plant biology in the College of Arts and Sciences and meet the teacher certification requirements. Regardless of the college of the University from which a student graduates, if he or she wishes to be certified through Ohio University to teach biology as the major field, the following program must be completed and passing scores earned on the National Teacher's Exam. The certificate for which this program prepares a person is a four-year provisional high school certificate which qualifies the holder to teach biology in grades 7-12, inclusive.

Students are strongly urged to complete a second teaching field preferably in another science or in mathematics. Program sheets detailing specific course requirements in these second teaching fields are available from Student Services, McCracken Hall 124.

Methods Courses:

PBIO 360	Field Exp.	2
PBIO 368	Teaching of Biol.	4

Secondary education professional and general education requirements must be completed.

Major Requirements: 91-101

BIOS 170 or PBIO 110	Intro to Zool. Intro to Plant Biol.	5 6
PBIO 111	Intro to Plant Biol.	6
BIOS 171	Intro to Zool.	5
BIOS 172	Intro to Zool.	3
BIOS 173	Intro to Zool.	1
BIOS 325 or PBIO 331	General Genetics Plant Genetics	5 5
BIOS 342 and 343 or PBIO 424	Prin. of Physiol. Plant Physiology	3 & 3 6
BIOS 275 376 or PBIO 425	Animal Ecol. and Field Ecol. Plant Ecology	4 & 4 5
BIOS 463 or PBIO 431	Cell Chemistry Cell Biology	4 5
BIOS 479 or PBIO 309 or PBIO 475	Evolution Plant Systematics and Ohio Flora Plant Speciation and Evolution	4 6 3
PBIO 427 or PBIO 450	Molecular Genetics Biotechnology and Genetic Engr.	3 4
MICR 211 and MICR 212 or MICR 411	Environmental Micro and Lab General Microbiology	6 6
CHEM 121, 122, and 123	Principles of Chemistry*	12
PHYS 201, 202, and 203	Intro to Physics	15
MATH 113 or MATH 115 or MATH 163A	Algebra Pre-Calculus Intro to Calculus	5 5 4
PSY 121 or MATH 250B	Elem. Statistics for the Behavioral Sci. Finite Mathematics	5 4
PHIL 216	Philosophy of Science Survey	3
EDM 332	Microcomputer App in Education	4

*Before selecting chemistry sequence, please check with an advisor in the College of Education. Some minor programs require CHEM 151, 152, 153, 301, and 302 in place of CHEM 121, 122, and 123.

Bookkeeping—Basic Business

(Major code #BS6202)

Regardless of the college of the University from which a student graduates, if he or she wishes to be certified through Ohio University to teach bookkeeping-basic business, the following program must be completed and passing scores earned on the National Teacher's Exam. The certificate for which this program prepares a person is a four-year provisional high school certificate which qualifies the holder to teach bookkeeping-basic business and sales-communication in grades 7-12, inclusive.

Students considering this certificate should consult with an advisor about the merits of a comprehensive business certification.

Methods Courses:

EDSE 470	Teaching of Bookkeeping- Basic Bus.	4
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Secondary education professional and required general education requirements must be completed.

Major Requirements: 68, plus methods courses

ACCT 201 and 202	Financial and Managerial	8
BUSL 255, 356	Law and Society, Law of the Mgt. Proc.	8
ECON 103 and 104	Prin.	8
ECON 304 or ECON 316	Intermediate Microeconomics Econ. and the Law	4 4
ECON 337	Gov. Regulation of Business	4
ECON 360	Money and Banking	4
FIN 325	Managerial Finance	4
JOUR 250	Adv. Prin.	4
MKT 301	Mkt. Prin.	4
MGT 300	Mgt.	4
MGT 325J	Business Communication	4
MIS 100	Intro to Bus. Comp.	4
MIS 220 or CS 230 or MIS 325	PC LAN Applications	4 4
PSY 121 or QBA 201	Statistics	5 4

Chemistry

(Major code #BS6257)

A student may earn a B.S.Ed. in the College of Education or an A.B. or B.S. in chemistry in the College of Arts and Sciences and meet teacher certification requirements. Regardless of the college of the University from which a student graduates, if he or she wishes to be certified through Ohio University to teach chemistry as the major field, the following program must be completed and passing scores earned on the National Teacher's Exam. The certificate for which this program prepares a person is a four-year provisional high school certificate which qualifies the holder to teach chemistry in grades 7-12, inclusive.

Students are strongly urged to complete a second teaching field preferably in another science or in mathematics.

Methods Courses:

EDSE 478	Teaching of Physical Science	3
EDSE 478L	Field Exp.	1-2

Secondary education professional and general education requirements must be completed

Major Requirements: 86

PBIO 110	Intro to Environ. and Plant Biology	6
or BIOS 170	Intro to Zool. (5)	
CHEM 151, 152, 153	Fund. of Chemistry	15
CHEM 241, 242	Quant. Analysis	5
CHEM 301, 302, 303, 304*	Organic	11
or CHEM 305, 306, 307, 308, 309		15
CHEM 325 Instr. or any two of the following pairs of courses:	Meth. of Analysis	4
CHEM 431 and 434		4
CHEM 432 and 435		4
CHEM 433 and 436		5

CHEM 351*	Physical	4
or CHEM 453, 454, 455	Physical	9
CHEM 476	Modern Inorganic	4
CHEM 489	Basic Biochem.	4
GEOL 101	Intro to Geology	5
MATH 163A, B	Intro to Calc.	7
or MATH 263A, B	Analytic Geom. and Calc.	8
PHIL 216	Phil. Sci. Survey	3
PHYS 251, 252, 253	Intro to Physics	15

Elective hours to add up to 86 hours

*Must choose one of the long sequences in organic, instrumental, or physical chemistry. The long sequence in physical chemistry will require more mathematics and more physics.

Elective hours to add up to 86 hours.

Communications Comprehensive-Option One**Speech Emphasis****(Major code #BS6287)**

Regardless of the college of the University from which a student graduates, if he or she wishes to be certified through Ohio University to teach in communication with an emphasis in speech, the following program must be completed and passing scores earned on the National Teacher's Exam. The certificate for which this program prepares a person is a four-year provisional high school certificate which qualifies the holder to teach English, speech, journalism, reading, and an integrated communications course in grades 7-12, inclusive.

Methods Course:

INCO 421	Instructional Training and Devel. in Comm.	5
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Secondary education professional and required general education requirements must be completed

Major Requirements: 116**Applied Communication Courses 45**

INCO 101	Fund. of Human Comm.	4
INCO 103	Fund. of Pub. Spkng.	4
INCO 104	Listening	4
INCO 205	Group Discussion	4
INCO 206	Comm. in Inter. Relationships	4
INCO 215	Argumentative Analysis and Advocacy	4
INCO 220	Oral Interp. of Literature	4
INCO 217A	Forensic Workshop	1-6
INCO 217B	Forensic Workshop	1-6
INCO 234	Intro to Comm. Theory	4
INCO 404	Principles and Tech. Interviewing	4
INCO 420	Gender and Comm.	4

Electives 3 chosen from:

TCOM 270, 441
THAR 210, 270, 271, 272, 320

English: 30

ENG 201 or 202 or 203		4
ENG 353	Struc. of Am. Engl.	4
ENG 307J or ENG 308J	Writing and Research Advanced Composition	4

Select two of the following: 8

ENG 301	Shakespeare, the Histories
ENG 302	Shakespeare, the Comedies
ENG 303	Shakespeare, the Tragedies
ENG 311	English Literature: Beginnings to 1500
ENG 312	English Literature: 1500-1600
ENG 313	English Literature: 1600-1800
ENG 464	Major English Authors

Select one of the following: 4

ENG 321	American Literature: Beginnings to 1865
ENG 322	American Literature: 1865-1918
ENG 323	American Literature: 1918 to Present
ENG 327	African American Fiction
ENG 328	African American Poetry
ENG 329	African American Drama
ENG 465	Major American Authors

Select one of the following: 4

ENG 204	Intro International Literature I
ENG 205	Intro International Literature II
ENG 206	Intro International Literature III
HUM 307	Great Books
HUM 308	Great Books
HUM 309	Great Books
ENG 331	Studies in Asian Literature
ENG 332	Studies in Asian Literature
ENG 333	Studies in Asian Literature

Select sufficient hours of English courses at the 200 level or above to bring total to 30 quarter hours.

Journalism (30 hrs for certification)

JOUR 133	Precision Lang.	4
JOUR 333	News Editing	4
JOUR 411	Communication Law	3
JOUR 412	Ethics and Media and Society	3
JOUR 489	Jour. Workshop (Sch. Pub.)	4

Select one of the following: 4

JOUR 250	Advertising Principles	4
JOUR 221	Graphics of Communication	5

Select sufficient journalism courses at the 200 level or above to bring total to 30 quarter hours.

Reading: 18

EDEL 311	Teaching Reading Elem. School	4
EDEL 311L	Field Experience	1
EDEL 411	Diag. and Treat. Read. Disab.	4
EDEL 412	Practicum	4
EDSE 420	Teaching Reading Content Area	4
EDSE 420L	Field Experience	1

Communications Comprehensive-Option Two**English Emphasis****(Major code #BS6204)**

Regardless of the college of the University from which a student graduates, if he or she wishes to be certified through Ohio University to teach in the field of communication with an emphasis in English, the following program must be completed and passing scores earned on the National Teacher's Exam. The certificate for which this program prepares a person is a four-year provisional high school certificate which qualifies the holder to teach English, speech, journalism, reading, and an integrated communication course in grades 7-12, inclusive.

Methods Courses:

EDPL 360	Field Exp.	
ENG 451	Teaching Lang. and Comp.	3
ENG 452	Teaching Lit	3

Secondary education professional and general education requirements must be completed

Major Requirements: 107-109**English: 44****Select two of the following:**

ENG 201, 202, 203		8
ENG 312	English Literature: 1500-1650	4
ENG 313	English Literature: 1660-1800	4
ENG 314	English Literature: 1800-1900	4
ENG 3071 or ENG 3081	Writing and Research Advanced Composition	4
ENG 353	Structure of Amer. English	4
ENG 322	American Literature: 1865-1918	4
ENG 350	Traditional Grammar	4
ENG 460	Literary Topics	4

Select one of the following:

ENG 465	Major American Authors	
ENG 466	Major International Authors	

Speech: 30

Choose 30 hrs. from the following with 4 hrs at 300 level.

Applied Communication Courses:

INCO 101	Fund. of Human Comm.	4
INCO 103	Fund. of Pub. Spkng.	4
INCO 205	Group Discussion	4
INCO 206	Comm in Inter. Relationships	4
INCO 215	Argumentative Analysis and Advocacy	4
INCO 217A	Forensic Workshop	1-6
INCO 220	Oral Interp. of Literature	4
INCO 234	Intro to Comm. Theory	4
INCO 304	Gender and Comm.	4
TCOM 270, 441		
THAR 210, 270, 271, 272, 320		

Journalism (30 hrs for certification)

JOUR 133	Precision Lang.	4
JOUR 231	News Reporting	4
JOUR 333	News Editing	4
JOUR 411	Communication Law	3
JOUR 412	Ethics and Media and Society	3
JOUR 489	Jour Workshop (Sch. Pub.)	4

Select one of the following:

JOUR 250	Advertising Principles	4
JOUR 221	Graphics of Communication	5

Select sufficient journalism courses at or above 200 level to bring total to 30 quarter hours.

Reading: 18

EDEL 311	Teaching Reading Elem. Sch.	4
EDEL 311L	Field Experience	1
EDEL 411	Diag. and Treatment Read. Disab.	4
EDEL 412	Practicum	4
EDSE 420	Teach Read. Content Area	4
EDSE 410L	Field Experience	1

Comprehensive Business Education**(Major code #BS6200)**

Regardless of the college of the University from which a student graduates, if he or she wishes to be certified through Ohio University to teach business education, the following program must be completed and passing scores earned on the National Teacher's Exam. The certificate for which this program prepares a person is a four-year provisional high school certificate which qualifies the holder to teach business education in grades 7-12, inclusive.

Methods Course:

EDSE 470	Teaching of Book-keeping-Basic Bus.	4
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Secondary education professional and general education requirements must be completed.

Major Requirements: 95 total hrs plus methods**Typewriting and Office Procedures***

MGT 325J	Business Communications	4
MIS 100	Intro to Bus. Comp.	4
MIS 220 or CS 230	Intro to Bus. File Proc.	4
MIS 325	PC LAN Applications	4
OAT or OMT 151	Alphabetic Shorthand (6 hours beyond OAT or OMT 151 for shorthand certification)	3
OAT or OMT 171	Administrative Support I	3
OAT or OMT 172	Administrative Support II	3
OAT or OMT 221	Machine Transcription	3
OAT or OMT 225	Word Processing I	3
OAT or OMT 226	Word Processing II	3

Business and Economics: 40

ACCT 201	Financial Acct.	4
ACCT 202	Managerial Acct.	4
ECON 103	Prin.	4
ECON 104	Prin.	4
MKT 301	Mkt. Prin.	4
MGT 300	Management	4

Select 16 hours from the following:

BUSL 255	Law and Society	4
BUSL 356	Law of Mgt. Proc.	4
ECON 303 or ECON 316	Intermed. Microecon. Econ. and Law (4)	4
ECON 330	Labor Econ.	4
ECON 337	Industrial Org.	4
ECON 356	Econ. History of U.S.	4
ECON 360	Money and Banking	4
FIN 301	Intro to Finance	4

Electives in Business and Related Areas: 12

Select 12 quarter hours of electives from the following:

ACCT 310 or 311		4
ECON 303 or 304 or 337 or 360		4
JOUR 250	Advert. Prin.	4
MATH 163A	Intro to Calc.	4
MATH 250B	Finite Math	4
MKT 444	Consumer Behavior	4

*Ohio University does not offer courses in these areas except on the Chillicothe and Lancaster campuses. Students following this major must take these courses at the Chillicothe and Lancaster campuses or at another institution. Courses could be taken at a four-year accredited institution or at certain technical institutions, such as Hocking College. Any courses taken to fulfill these requirements should be approved by Student Services in the College of Education to ensure applicability toward certification.

Comprehensive Science**(Major code #B56855)**

A student may earn either a B.S.Ed. in the College of Education or an A.B. or B.S. in a science in the College of Arts and Sciences and meet the teacher certification requirements. Regardless of the college or university from which a student graduates, if he or she wishes to be certified through Ohio University to teach comprehensive science as the major field, the following program must be completed and passing scores earned on the National Teacher's Exam. The certificate for which this program prepares a person is a four-year provisional high school certificate that qualifies the holder to teach comprehensive science in grades 7-12, inclusive.

Students are strongly urged to complete a second teaching field, preferably in another science or mathematics. Information regarding these second teaching fields is available in Student Services, McCracken 124.

Secondary education professional and general education requirements must be completed in addition to the major requirements. Information about these requirements is available in Student Services, McCracken 124.

Methods Courses:

EDSE 472 and 472L	Teaching Earth Sciences	4-5
EDSE 478 and 478L	Teaching Physical Science	4-5

Major Requirements: 102-118

The Comprehensive Science Program involves study in biological science, earth science, and general sciences with an emphasis in physical science. Requirements in all three areas must be completed to be certified to teach comprehensive science.

Certification in chemistry and/or physics as a major teaching field can be added to the program by completing additional hours of study in those sciences. Specific requirements for these options are explained at the end of this section.

Recommended, but not required, courses that will provide the necessary tools for the study of science are MATH 113 or 115 or 163A; PSY 121 or MATH 250B; EDM 332.

Area 1 Requirements: Biological Sciences

BIOS 170 or PBIO 110	Intro to Zool.	5
	Intro to Plant Biology	6
PBIO 111	Intro to Plant Biology	6
BIOS 171, 172, 173	Intro to Zool.	9
BIOS 325	General Genetics	5
or PBIO 331	Plant Genetics	5
or BIOS 225	Genetics in Human Society	3
BIOS 301	Human Anatomy	6
or PBIO 312	Plant Anatomy	5
BIOS 345	Human Physiology	4
or PBIO 424	Plant Physiology	6

Area 2 Requirements: Earth Science

GEOL 101	Intro to Geol.	5
GEOL 120	The Mobile Earth	4
or GEOL 215	Environmental Geol.	4
GEOL 211	Oceanography	4
GEOL 221	Earth and Life History	4
GEOG 201	Environmental Geog.	4
or GEOG 101	Elements of Physical Geography	6
GEOL 315	Mineralogy	4
GEOL 320	Rocks	3
PSC 100D	The Solar System	4
PSC 140	Astronomy Observation Lab	1

Area 3 Requirements: General Science

PHIL 216	Phil. of Science	4
CHEM 121, 122, 123	Principles of Chem.	12
or CHEM 151, 152, 153	Principles of Chem.	15
PHYS 201, 202, 203	Intro to Physics	15
or PHYS 251, 252, 253	Intro to Physics	15

To add a chemistry certification to the Comprehensive Science Program, the following courses are required:

CHEM 151, 152, 153 instead of CHEM 121, 122, 123	Pnn. of Chem.	15
CHEM 241, 242	Quantitative Analysis/Lab	5
CHEM 301, 302, 303, 304	Organic Chem./Lab	14

To add a physics certification to the Comprehensive Science Program, the following courses are required:

PHYS 251, 252, 253 instead of PHYS 201, 202, 203	Intro to Physics	15
PHYS 272, 273	Electronics Lab	4

Additional hours in PHYS or PSC to bring total to 30 hrs.

Earth Science**(Major code #BS6258)**

A student may earn a B.S.Ed. in the College of Education or an A.B. or B.S. in geological sciences or geography in the College of Arts and Sciences and meet teacher certification requirements. Regardless of the college of the University from which a student graduates, if he or she wishes to be certified through Ohio University to teach earth science as a major field, the following program must be completed and passing scores earned on the National Teacher's Exam. The certificate for which this program prepares a person is a four-year provisional high school certificate which qualifies the holder to teach earth science in grades 7-12, inclusive.

Students are strongly urged to complete a second teaching field, preferably in another science or in mathematics.

Methods Courses:

EDSE 472	Teaching Earth Sciences	3
EDSE 472L	Field Exp.	1-2

Secondary education professional and general education requirements must be completed.

Major Requirements: 87-88

Tool Courses (36 minimum)

PBIO 110 or BIOS 170	Intro to	6
CHEM 121, 122, 123	Intro to	12
MATH 163A, 163B or MATH 263A and 263B	Intro to Calc. Analytic Geom. and Calc.	7 8
PHIL 216	Phil. Sci. Survey	3
PHYS 201, 202	Intro to Phys.	10

Earth Science Courses (Choose at least 51 hrs from these courses)

GEOG 101	Physical Geog.	5
GEOG 201	Environmental Geog.	4
GEOG 302	Meteorology	5
GEOG 303	Climate	5
GEOL 101	Intro	5
GEOL 211	Oceanography	4
GEOL 315	Mineralogy	4
GEOL 320	Rocks	3
GEOL 330	Geomorphology	5
GEOL 340	Prin. of Paleontology	4
GEOL 456	Earth Systems Evolution	4
GEOL 462	Geodynamics	4
PSC 100D	The Universe	4

Educational Media Programs

The Educational Media Program provides two undergraduate majors. The first is designed to prepare media specialists to work in the public schools. After program completion and obtaining qualifying scores on the National Teacher's Exam, students become eligible for certification as a media specialist, grades K-12. The second prepares media personnel to work in such settings as business/industry, the health sciences, etc. The Educational Media Program also provides coursework wherein students currently possessing certification in grades K-8 or 7-12 may receive endorsement for Library/Media, grades K-8 or 7-12.

Certificated Media Major (Major code #BS6500)**Methods Course:**

EDM 489	Org. and Adm. of Ed. Media Prog.	5
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Secondary education professional and general education requirements must be completed.

Major Requirements: 105**Required Core Courses:**

EDM 201	Use of Library Media Resources I	3
EDM 289	Sophomore Practicum	2
EDM 305	Use of Library Media Resources II	3
EDM 332	Microcomputer App. in Ed.	4
EDM 389	Junior Practicum	2
EDIA 403	Basic Catalog. and Class.	5
EDIA 404	Basic Catalog. Nonprint Mats.	4
EDM 480	Intro to Ed. Media	4
EDIA 481	Fund. of Instr. Design and Devel. Media Emph.	4
EDIA 482	Product. of Instr. Mats.	4
EDIA 483	Select. and Eval. of Media	4

Required Courses:

EDEL 200 or HCCF 160	Studies of Children Intro to Child Devel.	4 4
EDEL 321, EDEL 321L	Children's Lit.	4
EDM 301	Library Serv. to Children	4
EDM 302	Adoles. Mats. and Serv.	4
EDM 303	Teaching Library Skills K-12	3

Select at least 8 quarter hours from the following:

ART 151	Intro to Graphic Design	4
ART 191	Intro to Photo.	4
EDCI 461	Intro to Individ. of Instruct.	4
TCOM 200A, B, C	Telecom. Wrting and Prod. Planning, Audio Proc. I, Video Prod. I	12

Select at least 6 quarter hours from the following:

CS 120	Computer Science Survey	5
EDEL 310, 310L	Teach. Lang. Arts Elem. Sch.	5
EDEL 311	Teach. Read. Elem. Sch.	4
EDEL 311L	Field/Clinical Exper.	1
EDSP 271	Intro to Ed. of Except. Child	4
INCO 234	Intro to Comm. Theory	5

Students must complete second teaching field: 30-45 hrs.

Noncertificated Media Major: 131**(Major code #BS6502)**

All students pursuing this program must complete 45 quarter hours in a related area. The related area includes coursework, internship, or both in the environment in which the student has elected to seek employment. The specific courses are to be determined with a student's advisor and then placed on file in the student's folder in Student Services, McCracken Hall 124.

General Education and Tier Requirements must be completed.

Required Core Courses: 44

EDM 201	Use of Library Media Resources I	3
EDM 289	Sophomore Practicum	2
EDM 305	Use of Library Media Resources II	3
EDM 332	Micro. in Ed.	4
EDM 389	Junior Practicum	2
EDM 403	Basic Catalog. and Class.	5
EDM 404	Basic Catalog. Nonprint Mats.	4
EDM 480	Intro to Ed. Media	4
EDM 481	Fund. of Instruct Design and Devel: Media Emph.	4
EDM 482	Product of Instr. Mats.	4
EDM 483	Select. and Eval. of Media	4
EDM 489	Org. and Admin. of Ed. Media	5

Required Courses: 43

ART 151	Intro to Graphic Design	4
ART 191	Intro to Photography	4
ART 192	Basic Photography	4
CS 120	Computer Science Survey	5
EDCI 461	Intro to Individ. of Instruct.	4
EDM 489	Organiz. and Admin. of Ed. Media Progs.	5
INCO 234	Intro to Comm. Theory	4
TCOM 200A, B, C	Telecom. Wrting. and Prod. Planning, Audio Prod. I, Video Prod. I	12

English Comprehensive**(Major code #BS6203)**

Regardless of the college of the University from which a student graduates, if he or she wishes to be certified through Ohio University to teach English, the following program must be completed and passing scores earned on the National Teacher's Exam. The certificate for which this program prepares a person is a four-year provisional high school certificate which qualifies the holder to teach English in grades 7-12, inclusive.

Methods Courses:

EDPL 360	Field Exp.	2
ENG 451	Teaching Lang. and Comp.	3
ENG 452	Teaching Lit.	3

Secondary education professional and general education requirements must be completed.

Major Requirements: 62-66

ENG 201 or 202 or 203 (choose two): 4

Select one of the following: 4

ENG 204	Intro International Lit. I
ENG 205	Intro International Lit. II
ENG 206	Intro International Lit. III
HUM 107, 307	Great Books
HUM 108, 308	Great Books
HUM 109, 309	Great Books

Select one of the following: 4

ENG 301	Shakespeare, the Histories
ENG 302	Shakespeare, the Comedies
ENG 303	Shakespeare, the Tragedies

Select one of the following: 4

ENG 307J	Writing and Research
ENG 308J	Advanced Composition

Select two of the following: 8

ENG 311	English Literature: Beginnings to 1500
ENG 312	English Literature: 1500-1660
ENG 313	English Literature: 1660-1800

Select one of the following: 4

ENG 314	English Literature: 1800-1900
ENG 315	English Literature: 1900 to Present

Select two of the following: 8

ENG 321	American Lit: Beginnings to 1865
ENG 322	American Lit: 1865-1918
ENG 323	American Lit: 1918 to Present

Select two of the following: 8

ENG 325	Women and Literature
ENG 327	African American Fiction
ENG 328	African American Poetry
ENG 329	African American Drama

Select one of the following: 4

ENG 465	Major American Authors
ENG 466	Major International Authors

ENG 350	Traditional Grammar	4
ENG 351	History of the English Language	4
ENG 460	Literary Topics	4
EDSE 420	Teaching Reading in Jr. and Sr. H.S.	4
EDSE 420L	Field Exp.	1

General Speech-Option One**INCO Emphasis (Major code #BS6288)**

Regardless of the college of the University from which a student graduates, if he or she wishes to be certified through Ohio University to teach speech with an interpersonal communication emphasis, the following program must be completed and passing scores earned on the National Teacher's Exam. The certificate for which this program prepares a person is a four-year provisional high school certificate which qualifies the holder to teach speech in grades K-12, inclusive.

Methods Course:

INCO 421	Instructional Train. and Devel. in Comm.	5
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Secondary education professional and general education requirements must be completed.

Major Requirements: 57 hrs minimum**Required Courses in Applied Communication**

INCO 101	Fund. of Human Comm.	4
INCO 103	Fund. of Pub. Spking	4
INCO 104	Listening	4
INCO 205	Group Discussion	4
INCO 206	Comm. in Inter Relationships	4
INCO 215	Argumentative Analysis and Advocacy	4
INCO 220	Oral Interp. of Lit.	4

INCO 217A	Forensic Workshop	1-6
INCO 234	Intro to Comm. Theory	4
INCO 404	Principles and Tech. Interviewing	4
INCO 420	Gender and Comm.	4

Electives in INCO/THAR to bring total hrs to 57

THAR 210, 211, 212 or 210y, 211y, 212y	Acting I, II, III	4
THAR 270, 271, 272	Theater Hist.	3
THAR 135, 235, 335, 435	Prod. Design	2-4
THAR 465	Pract. in Dir. (arr., School of Theater)	2-4
THAR 427	Pract. in Stage Mgt. (arr., School of Theater)	2-4

General Speech-Option Two**Theater Emphasis****(Major #BS6294)**

Regardless of the college of the University from which a student graduates, if he or she wishes to be certified through Ohio University to teach speech with a theater emphasis, the following program must be completed and passing scores earned on the National Teacher's Exam. The certificate for which this program prepares a person is a four-year provisional high school certificate which qualifies the holder to teach speech in grades 7-12, inclusive.

Methods Course:

INCO 421	Instructional Train. and Devel. in Comm.	5
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Secondary education professional and general education requirements must be completed.

Major Requirements: 92**Fundamental Processes: 14**

INCO 101	Fund. of Human Communication	4
INCO 433	App. of Gen. Semantics	4
THAR 101 and 102 or 103		2
THAR 110 or 110y	Intro to Performance	4

Theory and History: 31

INCO 234	Intro to Comm. Theory	4
JOUR 105	Intro to Mass Comm.	4
TCOM 270	Telecom. and the Pub.	4
THAR 172	Elem. Perf.	3
THAR 270	Theater Hist. I	4
THAR 271	Theater Hist. II	4
THAR 272	Theater Hist. III	4
THAR 320	Dir. I	4

Forms of Speech: 47

INCO 103	Pub. Spkng.	4
INCO 215	Argumentative Analysis and Advocacy	4
INCO 220	Oral Interp.	4
THAR 130	Intro to Stagecraft	3
THAR 131	Intro to Lighting	3
THAR 132	Intro to Costuming	3
THAR 210 or 210y	Acting I	4
	Electives above 200	12 hrs.
	No more than 4 hrs. Practicum	

Select 10 hours in 5 quarters from the following THAR practica. At least two of the following areas must be covered:

THAR 215, 315, 415	Acting
THAR 135, 235, 335, 435	Prod. Design
THAR 105, 205, 305, 405	Mgt.
THAR 465	Dir. (arr., School of Theater)
THAR 427	Stage Mgt. (arr., School of Theater)

Health Education**(Major code #BS6737)**

Students majoring in health education will normally enroll in the College of Health and Human Services. Regardless of the college of the University from which a student graduates, if he or she wishes to be certified through Ohio University to teach health, the following program must be completed and passing scores earned on the National Teacher's Exam. The certificate for which the program prepares a person is a four-year provisional high school certificate which qualifies the holder to teach health in grades 7-12, inclusive.

Methods Course:

HLTH 379	Teaching of Health	5
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Secondary education professional and general education requirements must be completed

Required General Education Courses:

CHEM 121	Principles of Chemistry	4
GEOG 201 or GEOL 215		4
	MATH	5
SOC 101	Intro to Sociology	5
BIOL 101	Prin. of Biology	5
PSY 101	General Psychology	5

Major Requirements: 58

HCCF 360 or BIOS 103	Human Sexuality Human Biology (S)	3
HCFN 128	Intro to Nutrition	4
HLTH 101	Intro to Health and Hum. Serv.	2
HLTH 202	Hlth. Sci. and Lifestyle Choices	4
HLTH 204	Drugs, Alcohol, and Tobacco	3

HLTH 227	First Aid	3
HLTH 228	CPR	1
HPES 390	Safety Education	4
HLTH 390	Community Health	4
HPES 409	Tests and Measurements	4
HLTH 495	School Health Problems	5
MICR 211, 212	Environ. Micro.	6
BIOS 301	Anatomy	6
BIOS 345	Physiology	4

Latin**(Major code #BS6231)**

Regardless of the college of the University from which a student graduates, if he or she wishes to be certified through Ohio University to teach Latin, the following program must be completed and passing scores earned on the National Teacher's Exam. The certificate for which this program prepares a person is a four-year provisional high school certificate which qualifies the holder to teach Latin in grades 7-12, inclusive.

Each person selecting Latin as a major teaching field must have a minor or second teaching field. Requirements for all of the second teaching fields are available from Student Services, McCracken Hall 124.

Methods Courses:

ML 469A	Teaching Modern Languages*	4
LAT 364	Teaching of H.S. Latin	3

*course number subject to change

Secondary education professional and general education requirements must be completed

Major Requirements (Classics: Latin): 76

LAT 111, 112, 113	Beginning Latin	12
LAT 211, 212, 213	Intermediate Latin	12
	LAT above the 213 level	28
	Classical Civilization*	24

***The following courses count for Classical Civilization credits:**

All CLNG courses

All CLAR courses

GK and LAT courses beyond the language requirement

HIST 328	The World of Aristophanes
HIST 329B	Ancient Greece
HIST 329C	Ancient Rome
HIST 331	The Ancient Greek Games
PHIL 310	History of Western Philosophy
PHIL 418	Plato
PHIL 419	Aristotle
AH 320	Greek Art
AH 321	Roman Art
AH 351	Ancient Architecture
HUM 107	Great Books
HUM 307	Great Books
POLS 371	Plato, Aristotle, and Pre-Modern Political Thought

Mathematics

(Major code #BS6255)

Regardless of the college of the University from which a student graduates, if he or she wishes to be certified through Ohio University to teach mathematics, the following program must be completed and passing scores earned on the National Teacher's Exam. The certificate for which this program prepares a person is a four-year provisional high school certificate which qualifies the holder to teach mathematics in grades 7-12, inclusive.

Methods Course:

MATH 320	Teaching of Math in Secondary School	4
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Secondary education professional and general education requirements must be completed.

Major Requirements: 60

Select at least 51 qtr hrs as follows:

CS 230	Computer Programming	5
MATH 263 A, B, C, D	Analytic Geom. and Calc.	16
MATH 211 or MATH 410	Linear Algebra Matrix Theory (4)	4
MATH 330A	Foundations of Geometry	3
MATH 330B	Foundations of Geometry	3
Electives in mathematics at 200 level or above		8
Mathematics at the junior/senior level, excluding 320		12

An additional 9 quarter hours are required and may be selected from any one or combination of the following:

Mathematics at the 200 level or above excluding MATH 320

Computer science at the 200 level or above

Physics 251, 252

Philosophy 320, 420, 421

Suggested math electives:

MATH 250B, 300, 306, 307, 314, 360, 406, 450A, 450B

Modern Languages Comprehensive

Regardless of the college of the University from which a student graduates, if he or she wishes to be certified through Ohio University to teach one of the modern foreign languages, the following program must be completed and passing scores earned on the National Teacher's Exam. This program prepares a person for a certificate to teach one of the modern foreign languages (French, German, Spanish) in grades K-12. Candidates for certification will be required to pass a foreign language proficiency examination before certification.

Students who have completed one year or less of high school work in the language in which they are majoring should start with ML 111—Elementary Language—4 hours. Students who have completed two or three years of high school work in the language in which they are majoring should start with ML 211—Intermediate Language—4 hours. Students who have completed four or more years of high school work in the language in which they are majoring should start with ML 213 (or above).

Methods Courses:

ML 435	Teaching Modern Languages in Elementary School	4
ML 410	Lang. Lab	3
ML 445	Teaching of Mod. Foreign Lang.	3

Secondary education professional and general education requirements must be completed.

Major Requirements: French: 68 (Major code #BS6232)

FR 111, 112, 113 or FR 114	Basic Intensive	
All students must have 56 hours above French 113 or 114.		
FR 211, 212, 213	Intermediate	12
FR 341, 342, 343	Adv. Conv. and Comp.	12
FR 348 or 349	Civ. and Culture	4
FR 355 and 356	Intro to Lit.	8
FR 437	Phonetics	4
FR 439 or 441	Mod. Usage or Stylistics	4
Additional electives at 400 level or above		12
Study abroad highly recommended.		

Major Requirements: Spanish: 68 (Major code #BS6235)

SPAN 111, 112, 113 Basic or SPAN 114 Intensive		
All students must have 56 hours above Spanish 113 or 114.		
SPAN 211, 212, 213	Intermediate	12
SPAN 341, 342, 343	Adv. Conv. and Comp.	12
SPAN 348 or 349	Div. and Culture	4
SPAN 354, 355, and 356	Intro to Lit.	12
SPAN 437	Phonetics	4
SPAN 439 or 441	Modern Usage or Stylistics	4
Additional electives at 400 level or above		8
Study abroad highly recommended.		

Major Requirements: German: 68 (Major code #BS6233)

GER 111, 112, 113 Basic or GER 114 Intensive		
All students must have 56 hours above German 113 or 114.		
GER 211, 212, 213	Intermediate	12
GER 341, 342, 343	Adv. Conv. and Comp.	12
GER 348 or 349	Civ. and Culture	4
GER 355 and 356	Intro to Lit.	8
GER 439 and 441	Modern Usage or Stylistics	8
Additional electives at 400 level or above		12
Study abroad highly recommended.		

Music Education with Instrumental Emphasis

(Major code #BS6241)

Regardless of the college of the University from which a student graduates, if he or she wishes to be certified through Ohio University to teach instrumental music, the following program must be completed and passing scores earned on the National Teacher's Exam. The certificate for which this program prepares a person is a four-year provisional special field certificate which qualifies the holder to teach music in grades K-12, inclusive. Students majoring in music education will normally enroll in the College of Fine Arts.

Methods Courses:

MUS 362	Teaching Inst. Music in the Elem. and Mid. School	3
MUS 363	Secondary School Inst. Methods and Materials	3
MUS 464	Marching Band Techniques	2
MUS 465	Jazz Ensemble Methods	2

Secondary education professional and general education requirements must be completed.

Major Requirements: 116

Applied Music in major instrument sufficient to pass prof. test 18

(See *School of Music Handbook*.)

Second Instr. Proficiency in piano as outlined in *School of Music Handbook*. (If piano is major instrument, proficiency on a band/orchestra instrument is also required.) 6-12

Major performing groups (minimum one per quarter) 22

MUS 90	(to be taken nine quarters)	0
MUS 101, 102, 103	Theory	12
MUS 125	Intro to Music History and Lit.	3
MUS 147, 148	Class Voice	4
MUS 163	Intro to Music Education	2
MUS 201, 202, 203	Theory	9
MUS 204, 205, 206	Dict. and Sight Sing	6
MUS 261	String Meth. and Materials	2-4
MUS 263	Wind and Perc. Methods	10-12
MUS 304	Instrumentation	3
MUS 322, 323	History of Music	6
MUS 413A	Intro to Electronic Music	2
MUS 455, 456A	Conducting	6
	Music ed. elective	2
	Music history elective	3

Note: students must be admitted to junior rank in music education before electing upper-level music education courses. See *School of Music Handbook*.

Music Education with Choral Emphasis**(Major code #BS6242)**

Regardless of the college of the University from which a student graduates, if he or she wishes to be certified through Ohio University to teach choral music, the following program must be completed and passing scores earned on the National Teacher's Exam. The certificate for which this program prepares a person is a four-year provisional special field certificate which qualifies the holder to teach music in grades K-12, inclusive.

Students majoring in music education will normally enroll in the College of Fine Arts.

Methods Courses:

MUS 364	Sec. Sch. Vocal Tech.	3
MUS 366	Teach. of Mus. in the Elem. Grades	3
MUS 468	Gen. Music in Jr. H.S.	3

Secondary education professional and general education requirements must be completed.

Major Requirements: 101 min. hrs

Applied Music		18
Major instrument (voice or piano sufficient to pass prof. test)		
—See <i>School of Music Handbook</i> for requirement		6-12
Major performing groups (minimum one per quarter)		11-22
MUS 90	(to be taken nine quarters)	0
MUS 101, 102, 103	Theory	12
MUS 125	Introduction to Music History and Lit.	3
MUS 163	Intro to Music Education	2
MUS 201, 202, 203	Theory	9
MUS 204, 205, 206	Dict. and Sight Sing.	6
MUS 261	String Methods and Materials	2
MUS 263	Wind and Perc. (3 qtrs., 2 hrs. ea.)	6
MUS 283	Recreational Music Inst. and Materials	3
MUS 322 and 323	History of Music	6
MUS 413A	Intro to Electronic Music	2
MUS 455 and 456, 456B	Conducting	6
	Music history elective	3
	Music elective	3
	Music theory elective	3

Note: students must be admitted to junior rank in music education before electing upper-level music education courses. See *School of Music Handbook*.

Physics**(Major code #BS6259)**

A student may earn a B.S.Ed. in the College of Education or an A.B. or B.S. in physics in the College of Arts and Sciences and meet teacher certification requirements. Regardless of the college of the University from which a student graduates, if he or she wishes to be certified through Ohio University to teach physics as the major field, the following program must be completed and passing scores earned on the National Teacher's Exam. The certificate for which this program prepares a person is a four-year provisional high school certificate which qualifies the holder to teach physics in grades 7-12, inclusive.

Students are strongly urged to complete a second teaching field preferably in another science or in mathematics.

Methods Courses:

EDSE 478	Teaching of Physical Sci.	3
EDSE 478L	Field Experience	1-2

Secondary education professional and general education requirements must be completed.

Major Requirements: 96-98

Total Courses: 48-49

PBIO 110 or BIOS 170	Intro Intro to Zool.	6 5
GEOL 101	Intro to Geology	5
CHEM 151, 152, 153	Fund. of Chem.	15
MATH 263A, B, C, D	Analytic Geom. and Calc.	16
MATH 340	Differential Equations	4
PHIL 216	Phil. Sci. Survey	3

Physics Courses: 41

PHYS 251, 252, 253	General Physics	15
PHYS 272, 273	Electronics Lab	4
PHYS 311, 312	Mechanics	8
PHYS 351, 352	Modern Quan. Phys.	8
PHYS 341, 372, 373	Interm. Lab	6

Choose at least 7 hrs. of electives from the following:

PHYS 411	Thermodynamics	4
PHYS 412	Kinetic Theory and Stat.	4
PHYS 420	Acoustics	3
PHYS 423	Geometrical and Phys. Optics	4
PHYS 427	Electricity and Magnetism	4
PHYS 428	Electricity and Magnetism	4

Physical Education**(Major code #BS8208)**

Students majoring in physical education will normally enroll in the College of Health and Human Services. Regardless of the college of the University from which a student graduates, if he or she wishes to be certified through Ohio University to teach physical education, the following program must be completed and passing scores earned on the National Teacher's Exam. The certificate for which the program prepares a person is a four-year provisional special field certificate which qualifies the holder to teach physical education in grades K-12, inclusive.

Methods Course:

HPES 402	Teaching and Curr. Strategies in Phys. Ed.	4
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Secondary education professional and general education requirements must be completed. HPES 234 or 334 should be taken in place of EDSE 250L.

Major Requirements: 83

(Elementary-Secondary Certification)

HPES 105	Cond. for Activ. and Organic Effic.	2
HPES 106	Intro to Human Movement	2
HPES 115	Rhythmics	2
HPES 134	Intro Field Exp. in Phys. Ed.	2
HPES 222	Tumbling and Mod Gymnastics	2
HPES 223	Track and Field	2
HPES 234	Field Experience	1-4
HPES 273	Movement Educ. and Fund Skills	3

HPES 275	Elem. School Rhythm and Dance	3
HPES 302	Biomechanics	4
HPES 325	Human Dynamics	3
HPES 333	Theory of Adapted Activities	3
HPES 334	Field Experience	1-4
HPES 345	Intro to Exer. Phys.	4
HPES 372	Theory and Practice of Sports	3
HPES 377	Theory and Practice of Elem. Phys. Educ.	3
HPES 404	History and Prin. of Physical Education	4
HPES 405	Motor Learning	4
HPES 406	Org. and Administration	4
HPES 409	Tests and Measurements	4
BIOS 302	Human Anatomy	6

Aquatics (select 2 credits):

HPES 104	Intermed. Swimming	2
HPES 218	Life Guard Training	2
HPES 220	Water Safety Instructors	3

Dance (select 2 credits):

HPES 107	Modern Dance I	2
HPES 116	Social Forms of Dance	2
HPES 117	Folk and Square Dancing	2

Individual Sports (select 2 credits):

HPES 141A	Archery	1
HPES 141B	Golf	1
HPES 221A	Tennis	1
HPES 221B	Badminton	1
HPES 224A	Racquetball	1
HPES 224B	Wrestling	1

Team Sports (select 4 credits):

HPES 260A	Flag Football	1
HPES 260B	Team Handball	1
HPES 262A	Field Hockey	1
HPES 262B	Soccer	1
HPES 263A	Basketball	1
HPES 263B	Volleyball	1
HPES 264A	Softball	1
HPES 264B	Lacrosse	1

Outdoor Education (choose one of following):

HREC 291	Outdoor Pursuits	3
HREC 311	Expedition Management	3
HREC 314	Camping	4
HREC 315	Outdoor Education and Recreation	4

Social Studies Comprehensive

(Major code #BS6214)

Regardless of the college of the University from which a student graduates, if he or she wishes to be certified through Ohio University to teach under the social studies comprehensive, the following program must be completed and passing scores earned on the National Teacher's Exam. The certificate for which this program prepares a person is a four-year provisional high school certificate which qualifies the holder to teach history, an integrated social studies course, and any other component area in which at least 30 hours have been completed in grades 7-12, inclusive.

Each student is to complete the required 36 hours of history and then complete 30 hours in one (or more if desired) of the other four fields (political science, economics, geography, psychology/sociology) and eight hours in each of the remaining fields. For example, a student would complete the required 36 hours of history, the 30 hours required in political science, and the required eight hours in each of the fields of economics, geography, psychology/sociology. In this example, the certificate issued would be valid for teaching history, an integrated social studies course, and political science.

Methods Course:

EDSE 479 Tch. Soc. Sci. in Jr. and Sr. H.S. 4
Secondary education professional and general education requirements must be completed.

Major Requirements: 90

History: 36 hours minimum

HIST 131 Intro to Third World 4

Select two of the following:

HIST 101, 102, 103 Western Civ. 8
or HIST 121, 122, 123 8

Select two of the following:

HIST 211, 212, 213 U.S. Hist. 8

Select two courses for a minimum of 6 hrs. of either U.S. or modern European history at 300 level or above (Ohio history recommended).

Select two courses for a minimum of 6 hrs. of non-U.S., non-modern European history.

If necessary, select sufficient electives in history at the 300 level or above to bring total to 36 hrs.

Select a minimum of 30 qtr hrs in one of the following fields and a minimum of 8 qtr hrs in each of the other three fields:

Political Science:

POLS 101* and 102* or 103* Amer. National.

Select 22 additional qtr hrs to fulfill 30 hr field.

Choose one course from each of the following areas:

1 Comparative Politics

(POLS 230, 331, 333, 340, 432, 434, 435, 438, 441, 445, 446, 447A, 447B)

2 Constitutional Law

(POLS 374, 477, 401, 402, 409, 413)

3 American Politics

POLS 304, 306, 310, 420, 415, 418)

4 Urban

(POLS 320, 323, 408, 421, 424)

5 International

(POLS 250, 351, 354, 427, 452, 455, 456, 459)

6 American Political Parties

(POLS 405, 406, 410, 417, 481)

Economics:

ECON 103* and 104*

Select 22 additional qtr hrs from the following to fulfill 30 hr field:

ECON 303, 304, 307, 313, 314, 315, 320, 337, 340, 350, 352, 360, 370, 371, 372, ECED 346

Geography:

GEOG 101* and GEOG 121*: select one elective in regional geography (GEOG 131, 132, 232, 233, 234, 330, 331, 332, 335, 338) and one elective in upper level systematic geography (GEOG 302, 303, 321, 322, 324, 325, 344, 350, 353, 411, 447, and 455) and any needed electives.

Psychology/Sociology:

Select 12-18 hrs of psychology and 12-18 hours of sociology, including at least one course from each area below, to complete the 30-hour field.

Psychology

(PSY 121*, 233, 226, 304, 315, 336)

Sociology

(SOC 101*, 201, 221)

One from the following:

(SOC 211, 315, 329, 331, 428, 430, 432)

One from the following:

(SOC 361, 362, 363, 366, 424)

Select electives in any one of the combination of the above fields to bring total qtr hrs to 90.

*Courses required in 8 qtr hr minimum choice.

Note: all students pursuing teacher education programs at Ohio University are subject to the Selective Admission and Retention Program in teacher education. Criteria and procedures are available from Student Services, McCracken Hall 124.

Special Education Programs

To receive a B.S.Ed. degree and certification in special education, students must complete one of the professional preparation programs for teaching exceptional children and receive passing scores on the National Teacher's Exam. These programs are for teaching (1) Developmentally Handicapped/Severe Behavior Handicapped, (2) Developmentally Handicapped/Specific Learning Disabilities, and (3) Multihandicapped.

Specific information about programs in hearing and speech therapy is included under the Health and Human Services section of this catalog.

Developmentally Handicapped/Severe Behavior Handicapped

(Major code #BS6219)

Required General Education Courses

Students also must complete Ohio University's program of General Education (see General Education Requirement in the Graduation Requirements section of this catalog) and are urged to consult with their advisors to plan to meet both sets of requirements.

Humanities: 5-8

Five to eight hours of humanities are required. Possible courses include any combination of the following: comparative arts, art history, great books (HUM 107, 108, 109, 307, 308, and 309), philosophy, art (except for ART 360, 461, 462), theater history, and music (except for music education and music therapy courses). No more than three one-hour participation courses would be acceptable.

Natural Sciences: 5-8

Five to eight hours of natural sciences are required. Possible courses include any combination of the following: biological sciences, physics, geological sciences, chemistry, physical world, or plant biology. One of the courses taken must contain a laboratory component.

Social Sciences: 5-8

Five to eight hours of social sciences are required. Possible courses include the following: anthropology, economics, economic education, geography, political science, history, sociology, or social welfare.

Psychology: 9

PSY 101 Gen. Psy. and five hours of electives in psychology are required. The following are recommended: PSY 121, 231, 233, 241, 304, 310, 312, 315, 336, or EDCE 410.

English: 9

Freshman and junior composition requirements

INCO 101		
or 103	Fund./Pub. Spkng.	4

Hearing and Speech Therapy: 3-5

HSS 108	Intro to Speech Disorders	
or HSS 336	Speech and Hearing Disorders in the Pub. Schools	

Math

MATH 120 and 121		7
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MATH 120 is recommended; however, any mathematics course(s) numbered above 120 equaling four hours would be acceptable (except MATH 151).

Education

EDEL 311	Teaching Reading Elem. Sch.	4
EDEL 311L	Field Exp.	1
EDEL 330	Teaching Math	2
EDEL 330L	Field/Clinical	1
EDM 332	Micro App in Ed	4
EDSP 355	Micro App. in Sp. Ed.	4

Music

MUS 160	Music Fundamentals	3
or MUS 282	Music Therapy	3

Art: 3-6

ART 360	Art for Elem. Tchr	6
or ART 373	Devel. Art Ther	5
or HREC 251	Art and Nat. Crafts	3

Health

HLTH 262	HLTH Sci. and Lifestyle Choices	4
or HLTH 227	First Aid	3

Recreation for the Handicapped: 3-4

HREC 250	Recreation Leadership	3
or HREC 315	Outdoor Ed. and Recreation	4
or HREC 333	Theory of Adapted Activities	3
or HREC 430	Prin. Therapeutic Rec.	3
or HPES 485	Percept. Motor Devel. in Children	3

TIER III: 4

Major Requirements

Block I (Freshmen and Sophomores)

EDCI 275	Learning Process in the Classroom	5
or PSY 275	Educational Psychology	4
EDEL 200	Studies of Children	4
or HCCF 160	Intro to Child Devel	4
or PSY 273	Child and Adol. Psych.	4
EDSP 271	Intro to Education of Except. Childrn.	4

Block II (Sophomores)

EDM 480	Intro to Educational Media	4
EDSP 260	Field Experience in Spec. Educ.	2
EDSP 270	Classroom Management of Children I.	3
EDSP 272	Intro to Educ. of Mentally Ret.	3
EDSP 373	Curr. and Materials for Exceptional Learner	4
EDCI 401	Advanced Field Exp-Multicultural	2

Block III (Sophomores and Juniors)

EDSP 360	Field Experiences in Special Educ.	3
EDSP 370	Classroom Management II	3
EDSP 374	Lang. Dev. and Adapt. for Exceptional Learner	4
EDSP 375	Meth. and Mat. for Tchng. Dev. Handicapped Students	4
EDSP 377	Career and Voc. Educ. for Except. Learner	3

Block IVC (Juniors)

EDEL 311	Teaching Reading Elem. Sch.	4
EDEL 311L	Field Exp.	1
EDSP 400	Nature and Needs of SBH	4
EDSP 485	Diagnosis and Eval. of Handicapped	4

Block VC (Seniors)

EDSP 401	Meth. of Teaching SBH	4
EDSP 462	Field Experiences in Special Educ.	3
EDSP 477	Comm. with Parents and Professionals in Sp. Ed.	4
EDCI 480	Teacher, School, and Society	4
or EDEL 460	Child and Curr.	4

Professional Laboratory Experience

EDPL 461 and 462	Stu. Teaching	13
EDPL 465	Stu. Teaching Seminar	3

These three courses are taken concurrently in one quarter and constitute the student teaching requirement. A person should make an application for student teaching by December 1 of the year prior to the year in which student teaching is to be taken. For example, anyone doing student teaching during any of the three quarters of the school year 1995-96 should apply for student teaching by December 1, 1994. For further information about student teaching, contact Student Services, McCracken 124. Students must complete Block V before entering student teaching. Consult with Dr. Steve Safran, 614-593-4434, to schedule SBH courses (EDSP 400, 401, 462).

Developmentally Handicapped/Specific Learning Disabilities

(Major code #BS6213)

Required General Education Courses

Students must also complete Ohio University's program of General Education (see General Education Requirement in the Graduation Requirements section of this catalog) and are urged to consult with their advisors to plan to meet both sets of requirements.

Humanities: 5-8

Five to eight hours of humanities are required. Possible courses include any combination of the following: comparative arts, art history, great books (HUM 107, 108, 09, 307, 308, and 309), philosophy, art (except for ART 360, 460, 461, 462), theater history, and music (except for music education and music therapy courses). No more than three one-hour participation courses would be acceptable.

Natural Sciences: 5-8

Five to eight hours of natural sciences are required. Possible courses include any combination of the following: biological sciences, physics, geological sciences, chemistry, physical world, or plant biology. One of the courses taken must contain a laboratory component.

Social Sciences: 5-8

Five to eight hours of social sciences are required. Possible courses include the following: anthropology, economics, economic education, geography, political science, history, sociology, or social welfare.

Psychology: 9

PSY 101 Gen. Psy. and five hours of electives in psychology are required. The following are recommended: PSY 121, 231, 233, 241, 304, 310, 312, 315, 336; or EDCE 410.

Public Speaking

INCO 101 or 103	Fund./Pub. Spkg.	4
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English: 9

Freshman and junior composition requirements

Computer Technology

EDM 332	Microcomputer App. in Ed	4
EDSP 355	Microcomputer App. in Spec. Ed.	4

Hearing and Speech Therapy: 3-5

HSS 108 Intro. to Speech Disorders or HSS 336 Speech and Hearing Disorders in the Pub. Schools

Math

MATH 120 and 121		7
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MATH 120 is recommended; however, any mathematics course(s) numbered above 120 equaling seven hours would be acceptable (except MATH 151).

Music

MUS 160	Music Fundamentals	3
or MUS 282	Music Therapy Act.	3

Art

ART 360	Art for Elem. Tchr.	6
or ART 373	Devel. Art Ther.	5
or HREC 251	Art and Nat. Crafts	3

Health

HLTH 202	Hlth. Sci. and Lifestyle Choices	4
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Recreation for the Handicapped: 3-4

HREC 250	Recreation Leadership	3-4
or HREC 315	Outdoor Ed. and Recreation	4
or HREC 333	Theory of Adapted Activities	3
or HREC 430	Prin. of Therapeutic Rec.	3
or HPES 485	Percept. Motor Devel. in Children	3

TIER III: 4

Major Requirements

Block I (Freshmen and Sophomores)

EDCI 275	Learning Process in the Classroom	5
or PSY 275	Educational Psychology	4
EDEL 200	Studies of Children	4
or HCCF 160 I	Intro to Child Devel.	4
or PSY 273	Child and Adol. Psych.	4
EDSP 271	Intro to Education of Except. Childrn.	4

Block II (Sophomores)

EDCI 401	Advanced Field Exp-Multicultural	2
EDM 480	Intro to Educational Media	4
EDSP 260	Field Experience in Spec. Educ.	2
EDSP 270	Classroom Management of Children I	3
EDSP 272	Intro to Educ. of Mentally Ret.	3
EDSP 373	Curr. and Materials for Exceptional Learner	4

Block III (Sophomores and Juniors)

EDSP 360	Field Experiences in Special Educ.	3
EDSP 370	Classroom Management II	3
EDSP 374	Lang. Dev. and Adapt. for Exceptional Learner	4
EDSP 375	Meth. and Mat. for Tchng. Dev. Handicapped Students	4
EDSP 377	Career and Voc. Educ. for Except. Learner	3

Block IV (Juniors)

EDEL 311	Teaching Reading El. Sch.	4
EDEL 311L	Field Exp. in Reading	1
EDEL 330	Teaching Math El. Sch.	2
EDEL 330L	Field Exp. in Math	1
EDSP 474	Intro to Specific Learning Disabilities	4
EDSP 485	Diagnosis and Eval. of Handicapped	4

Block V (Seniors)

EDSP 460	Field Experiences in Special Educ.	3
EDSP 476	Teaching the Learning Disabled	4
EDSP 477	Comm. with Parents and Professionals in Sp. Ed.	4
EDCI 480	Teacher, School, and Society	4
or EDEL 460	Child and Curr.	4

Professional Laboratory Experience

EDPL 461 and 462	Stu. Teaching	13
EDPL 465	Stu. Teaching Seminar	3

These three courses are taken concurrently in one quarter and constitute the student teaching requirement. A person should make an application for student teaching by December 1 of the year prior to the year in which student teaching is to be taken. For example, anyone doing student teaching during any of the three quarters of the school year 1995-96 should apply for student teaching by December 1, 1994. For further information about student teaching, contact Student Services McCracken Hall 124.

Students must complete Block IV before entering student teaching.

Multihandicapped**(Major code #BS6218)**

Students must also complete Ohio University's program of General Education (see General Education Requirement in the Graduation Requirements section of this catalog) and are urged to consult with their advisors to plan to meet both sets of requirements. Students also may receive an endorsement in early childhood special education.

Required General Education Courses**Humanities: 5-8**

Five to eight hours of humanities are required. Possible courses include any combination of the following: comparative arts, art history, great books (HUM 107, 108, 109, 307, 308, and 309), philosophy, art (except ART 360, 461, 462), music (except for music education and music therapy courses; no more than three one-hour participation courses would be acceptable), theater history courses.

Natural Sciences: 5-8

Five to eight hours of natural sciences are required. Possible courses include any combination of the following: biological sciences, physics, geological sciences, chemistry, physical world, or plant biology. One of the courses taken must contain a laboratory component.

Social Science: 5-8

Five to eight hours of social sciences are required. Possible courses include the following: anthropology, economics, economic education, geography, political science, history, sociology, or social welfare.

Psychology: 9-10

PSY 101	General Psychology	5
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And 4-5 hours from the following: PSY 121, 231, 233, 241, 304, 310, 312, 315, 332, 336, or EDCE 410.

Public Speaking

WCO 101 or 103	Fund/Pub. Spkg.	4
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English:

ENG 151, 152, or 153 and ENG 308J	Composition	9
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Hearing and Speech Therapy: 8

HSS 108	Intro to Speech Disorders	4
HSS 378	Sign Language	4

Math:

MATH 120		4
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Music: 6

MUS 160 or MUS 282	Music Fundamentals Music Therapy Activities	3 3
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Art: 3-6

ART 360 or HREC 251	Art for Elem. Tch. Art and Nature Crafts or Approved elective	6 3
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Health: 7

HLTH 202	Hlth. Sci. and Lifestyle Choices	4
HLTH 227	First Aid	3

Recreation: 3-4

HREC 250	Recreation Leadership or Approved Phys. Ed. or Recreation Course	3 4
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TIER III: 4**Major Requirements****Block I (Freshmen and Sophomores)**

EDCI 275 or PSY 275	Lng. Process in Classroom Educational Psy.	5 4
EDSP 271	Intro Ed. Except. Child	4
HCCF 160 or EDEL 200	Intro Child Development Studies of Children	4 4

Block II (Sophomores)

EDM 480	Intro to Ed. Media	4
EDSP 260	Field Exp. in Spec. Educ.	2
EDSP 270	Classroom Mgt.	3
EDSP 272	Intro to Educ. of MR	3
EDSP 373	Curr. and Mat. for Exceptional Learner	4

Block IIIB (Juniors)

EDSP 361	Field Exp. in Spec. Educ.	3
EDSP 374	Lng. Dev. and Adapt. for the Exceptional Learner	4
EDSP 377	Career and Voc. Ed.	3
EDSP 473	Nature and Needs of Persons with Multihandicaps	4
EDSP 485	Diag. and Eval. Sp. Ed.	4

Block IVB

EDSP 371 or EDCI 492M	Teaching Presch. Hand. (Required for EDSE) Teaching Daily Living Skills or an elective approved by advisor	3 3
EDSP 461 or EDSP 463	Field Exp. Sp. Ed. (Required for EDSE)	3 3
EDSP 475	Methods/Mat. Multihandicapped	4
EDSP 477	Comm. w/Parents and Prof. in Sp. Ed.	4
HPES 335	Adapted P.E. for Sp. Ed.	3
EDCI 401	Advanced Field Exp-Multicultural	2
EDM 332	Micro App. in Ed.	4
EDSP 355	Micro in Sp. Ed.	4
EDCI 480 or EDEL 460	Tchr. Sch. and Soc. Child and Curric.	4 4

Recommended Professional Electives

EDSP 378	Sheltered Workshop	2
HCCF 361	Prin. of Presch. Guid	3
HCCF 363	Creat. Exp. w/Presch. Child	4

Professional Laboratory Experience

EDPL 461 and 462	Student Teaching	13
EDPL 465	Student Teaching Seminar	3

These courses are taken concurrently in one quarter and constitute the student teaching requirement. A person should make an application for student teaching by December 1 of the year prior to the year in which student teaching is to be taken. For example, anyone doing student teaching during any of the three quarters of the school year 1995-96 should apply by December 1, 1994. For further information contact the Office of Student Services, McCracken Hall 124. Students must complete Block IVB before entering student teaching.

Minor Area of Concentration: 14-15

Students are required to complete a 14-15 hour area of concentration in one related area outside the College of Education. Common minors are art, early childhood, human and consumer sciences, music, physical education, political science, psychology, recreation therapy, residential services, sheltered workshops, social work, sociology, and hearing and speech sciences. Students may NOT count courses taken to complete the General Education Requirements in humanities, natural sciences, social sciences, and psychology toward fulfillment of the minor area of concentration.

Student Teaching

Successful student teaching represents the culmination of the program of professional preparation; it is a requirement for the Bachelor of Science in Education for individuals pursuing programs that are designed to result in eligibility for teacher certification. No candidate will be considered for recommendation for a teaching certificate who has not received passing scores on the National Teacher's Exam and has not completed, under the supervision of Ohio University, at least 16 quarter hours of observation, participation, student teaching with grades of C or above, and seminar.

Vocational Education

The teacher education program in vocational education provides alternative certification programs for those individuals who have had qualifying vocational experiences, either prior to collegiate instruction or who wish to update present skills to qualify for the Ohio Vocational Teaching Certificate.

The program requires extensive study in vocational education as required by the State Department of Education, Division of Vocational and Career Education. Contact: Dr. Terry Harvey, The Ridges, Adm. Bldg. 107, 614-593-4561.

Application

It is the responsibility of the student to enter an application for student teaching in Student Services no later than December 1 preceding the academic year in which a student teaching assignment is desired.

Schedule, Housing, Transportation, and Assignments

Students experience the complete range of the teacher's activities in full-time student teaching assignments for one quarter. All students must plan carefully during the first three years of college to provide for a completely free quarter to engage in full-time student teaching. Majors in elementary education and majors in secondary academic areas and special fields will normally be assigned to student teaching during one of the quarters of their senior year.

The assignment of each student to a school is the responsibility and prerogative of the director of Student Services. Students will be assigned to one of our existing centers which are in the following areas: Athens, Chillicothe, Ironton, Lancaster, St. Clairsville, Zanesville, Cleveland, and St. Louis, MO.

Students must secure their own housing and provide their own transportation to their assignments. Privately owned cars will be needed except by students assigned in metropolitan centers where public transportation is available. Student teaching assignments in the Athens area are made within a commuting radius of 50 miles. The University assumes no responsibility for the transportation of students.

Prerequisites for Student Teaching

Applicants are evaluated for admission to student teaching in terms of the prerequisites described in this section. Any exceptions are the responsibility of the director of Student Services. The student teaching applicant is responsible for meeting the appropriate prerequisites prior to the opening of the quarter designated for student teaching on his or her application. In addition to the prerequisites detailed in this section, applicants in health, music, physical education, human and consumer sciences, and hearing and speech therapy must have approval of the appropriate departmental head.

Enrollment in student teaching is open only to Ohio University degree candidates or to degree holders who are completing Ohio certification requirements and who will be eligible for Ohio University's recommendation for an Ohio certificate upon the completion of student teaching.

Criteria for Admission (requirements must be completed by the time a student begins student teaching, not at the time of application):

1 General requirements

- a Completion of at least two quarters (30 quarter hours) of residence work at Ohio University. Transfer students must complete at least one-fourth of the preparation in the principal teaching field at Ohio University.
- b Completion of at least 135 quarter hours with an accumulative g.p.a. of 2.75.
- c Completion of all requirements to be admitted to advanced standing in professional education at least one quarter prior to starting student teaching, including passing scores on PPST or equivalent.
- d Completion of junior-level English composition requirement, with a C or better.
- e Completion of a significant portion (at least 75 percent) of the general education portion of the teacher education program the student is pursuing and all of the University General Education Tier I and Tier II requirements.
- f Students will be screened and recommended for student teaching by a representative appointed by the faculty.

2 Specific requirements for elementary education:

a Completion of the following courses with an accumulative g.p.a. of 2.75 and a minimum grade of C in each course:

- (1) EDCI 275 or PSY 275
- (2) EDEL 200 and PSY 273 or HCCF 160
- (3) EDSP 271
- (4) EDEL 200L, EDCI 401
- (5) EDEL 310, 311, 321, 330, 331, 340, 350
- (6) EDEL 310L, 311L, 321L, 330L, 331L, 340L, 350L
- b Completion of ART 360, MUS 161, and HPES 270.

3 Specific requirements for early childhood/primary:

a Completion of the following courses with an accumulative g.p.a. of 2.75 and a minimum grade of C in each:

- (1) EDCI 275 or PSY 275
- (2) DEL 200 or PSY 273 or HCCF 160
- (3) EDSP 271
- (4) EDEL 200L, EDCI 401
- (5) EDEL 310, 311, 321, 330, 331, 340, 350
- (6) EDEL 310L, 311L, 321L, 330L, 331L, 340L, 350L
- (7) HCCF 360, 361, 363, 364, 371, 462, 463, 465
- (8) HCFN 128

4 Specific requirements for special education:

a Completion of all courses in Blocks I, II, III, IV, and V with an accumulative g.p.a. of 2.75 and a minimum grade of C in each course.

b Completion of all field experience courses required in Blocks I, II, III, IV, V, and EDCI 401 with an accumulative g.p.a. of 2.75.

5 Specific requirements for secondary education:

a Completion of the following courses with an accumulative g.p.a. of 2.75 and a minimum grade of C in each:

- 1 EDCI 275 or PSY 275, EDSE 250, 270, 351, 420
- 2 EDM 480 or EDM 480A and specific methods courses
- 3 EDSE 250L, 270L, 420L, EDCI 401

b Completion of a major portion (at least three-fourths—75 percent) of the work in each of the teaching fields in which the student wishes to be certified.

c An accumulative g.p.a. of 2.75 must be attained in each field for which certification is sought.

6 Specific requirements for hearing and speech therapy:

a Completion of the following courses with an accumulative g.p.a. of 2.75 with a minimum grade of C in each:

- (1) EDEL 200 or PSY 273 or HCCF 160
- (2) EDCI 275 or PSY 275
- (3) EDSP 271 or PSY 376
- (4) EDSP 270, 474
- (5) HSS 442
- (6) EDEL 311, 311L
- (7) EDCE 410
- (8) EDCI 401
- (9) EDEL 200L

b Completion of a bachelor's degree in hearing and speech therapy and HSS 643

Completion of requirements for graduation and of the professional courses required for certification does not ensure that the individual will be recommended for certification. Instructors in various courses, and especially in courses in education and student teaching, will evaluate a student's fitness for the teaching profession in ways other than observation of academic performance in the classroom. Limitations which might impair the individual's usefulness as a teacher in the public schools will be made a part of the student's record. When the student applies for certification, this record will be examined and the question of his or her fitness for teaching will be given further consideration. Grades of C, or above, are required for recommendation, as well as passing scores on the National Teacher's Exam.

All students applying for a teaching certificate, effective July 1, 1994 or after, must undergo a background check by the Bureau of Criminal Identification and Investigation (BCI). The State Department of Education will not issue a new certificate until it receives a copy of the background check from the BCI, which requires applicants to be fingerprinted. This requirement includes the following students:

1 Those applying for their first certificate

2 Those who have a certificate but are applying for an additional certificate

Note: students applying for an endorsement or validation will not need to undergo a background check for certification.

Students who are not planning to teach in Ohio should familiarize themselves with the requirements specified by the departments of education of the states in which they expect to teach.

Reciprocity

Ohio participates in the Interstate Agreement on Qualification of Educational Personnel and has entered into an implementation contract with the following states:

Alabama	Maine	Rhode Island
California	Maryland	South Dakota
Connecticut	Massachusetts	Utah
Delaware	Nebraska	Vermont
District of Columbia	New Hampshire	Virginia
Florida	New Jersey	Washington
Hawaii	New York	West Virginia
Idaho	North Carolina	
Indiana	Pennsylvania	
Kentucky		

Teaching Certificates

A student who plans to teach in Ohio makes application for a teaching certificate when passing scores for the core battery and specialty area(s) of the National Teacher's Exam are reported to Student Services in the College of Education. Certification applications may be obtained from Student Services, McCracken Hall 124. The teaching certificate is issued by the State Department of Education and qualifies the student to teach the subjects indicated on the certificate.

Major Field of Specialization

To be recommended for certification by Ohio University, the student's level of preparation in the major area of specialization must correspond with the outline on the preceding pages, even though these requirements in many instances exceed those shown in the state certification regulations.

Dual Certification

The level of preparation in another certifiable field must equal or exceed requirements shown in the regulations of the Division of Teacher Education and Certification of the State Department of Education. Students may choose to add a second teaching field from the following list:

Biological Studies	History	Social Psychology A list of certification requirements for each second teaching field is available in Student Services, McCracken Hall 124.
Bookkeeping/Basic Business	Journalism	
Chemistry	Latin	
Earth Science	Library Media	
Economics	Mathematics	
English	Physical Education	
General Speech	Physics	
Geography	Political Science	
Health Education		

Endorsement. An endorsement of a standard certificate may be issued in the following areas:

- A** Educational Media: 30 quarter hours
- B** Reading: 18 quarter hours

Validation. A validation of a standard certificate may be issued in the following areas:

- A** Prekindergarten (Validation limited to holders of kindergarten-primary, elementary, or special education certificates: 30 quarter hours)
- B** TESOL
- C** Gifted Education
- D** Adapted Physical Education
- E** Early Childhood Special Education

Transferring from One Type of Certificate to Another

Elementary to High School

The holder of a standard elementary teacher's certificate may obtain a high school teacher's certificate by completing the teaching field requirements and a methods course for teaching at the secondary level.

High School or Special to Elementary

Persons certified for high school or special may obtain a certificate valid for elementary education. Students must check with an advisor or Student Services in McCracken Hall 124 for current certification requirements.

Placement

The Office of Career Services, located in Lindley Hall, offers assistance to undergraduate students seeking educational positions.

Information about available teaching and administrative positions in the public schools, as well as openings in education, student personnel, home economics, counselor education, and physical education departments of colleges and universities of most states and many foreign countries, is disseminated through the office.

College of Engineering and Technology

T. Richard Robe,
Dean

Joseph E. Essman,
Associate Dean

Roger Radcliff,
Assistant Dean for Academic Affairs

Pamela Parker,
Assistant Dean for Development

Marty North,
Assistant Dean for Student Careers

The Fritz J. and Dolores H. Russ College of Engineering and Technology offers curricula leading to the Bachelor of Science degree through the departments of Chemical, Civil, Electrical and Computer, Industrial and Systems, and Mechanical Engineering, as well as the departments of Airway Science and Industrial Technology. Engineering curricula are focused on the engineering profession in which a knowledge of the mathematical and natural sciences, gained by study, experience, and practice, is applied to develop ways to economically use the materials and forces of nature for the benefit of humankind and the environment. Graduates have both the theoretical and practical training to begin professional careers or continue advanced work at the graduate level. Program flexibility is provided through technical electives so that the student may concentrate his or her studies in a chosen area within the department, or alternately use these electives in other areas. All engineering curricula are accredited by the Engineering Accreditation Commission (EAC) of the Accreditation Board of Engineering and Technology (ABET).

The airway science curriculum, approved by the Federal Aviation Administration (FAA), prepares students for careers in aviation.

The industrial technology curriculum combines courses in general education, math and computer science, physical science, and management with "hands-on" manufacturing courses to prepare graduates for technical/management positions in manufacturing industries. The Industrial Technology Program is accredited by the National Association of Industrial Technology (NAIT).

In 1986, the college moved all of its departments into the Stocker Engineering and Technology Center, named in honor of C. Paul and Beth K. Stocker for their many years of devoted service to the college and University and for their financial support. Paul Stocker graduated from Ohio University in 1926 with a degree in electrical engineering, and his wife, Beth, graduated from the University in 1928. Stocker was a member of the College of Engineering and Technology's Board of Visitors and served two terms as a trustee of the University from 1958 to 1974.

In 1994, the College of Engineering and Technology became the Fritz J. and Dolores H. Russ College of Engineering and Technology, the first college at Ohio

University to be named for financial benefactors. A devoted OU alumnus, Fritz Russ earned a bachelor's degree in electrical engineering from Ohio University in 1946 and an honorary doctorate in engineering in 1975. He also served as a trustee of the University from 1981 to 1990. The generous endowments from these individuals provide support for visiting professorial chairs, scholarships, advanced research equipment, and excellence in departments within the college.

With careful planning a student may, in addition to the Bachelor of Science degree from this college, obtain a second degree or a minor from the College of Arts and Sciences, the College of Business Administration, or the College of Fine Arts. (See "A Second Bachelor's Degree" in the Graduation Requirements section of this catalog.) In addition to the financial aid program sponsored by the University, the Russ College of Engineering and Technology and its departments have separately funded scholarships. Students applying for scholarships through University channels are considered for both University and separately funded scholarships. The college also has established a student loan fund for upperclass students needing assistance. Information on this program is available in the dean's office, Stocker Center.

Admission to Engineering and Technology Programs

Upon admission to Ohio University, an entering freshman who has an objective of obtaining a degree in engineering, airway science, or industrial technology may request direct entry into the Russ College of Engineering and Technology. In addition to the general requirements for admission to Ohio University, there are special requirements for all applicants seeking admission to one of the engineering degree programs.

In general, direct entry into a regular engineering degree program of the Russ College of Engineering and Technology depends upon the qualifications and preparation of the applicant. The criteria listed below are the minimum preparation recommended for all engineering degree programs. However, when other considerations tend to discount low academic grades or college aptitude test scores, direct entrance may be requested if there is other persuasive evidence of both the capability and motivation to successfully undertake an engineering program.

Students may request direct entry into the Industrial Technology Program. There are no additional requirements above the general University requirements listed in this catalog.

Students may request direct entry into the Airway Science Program. Because of the nature of the program, only a limited number of applicants are accepted into this program. Those not accepted may enter the University for possible transfer into the program at a later date; however, there is no guarantee that space will be available.

Freshman Applicants

Direct Entry into Engineering Programs

Recent high school graduates, or transfer students who have earned fewer than 30 quarter hours (or 20 semester hours) of credit at Ohio University or another accredited collegiate institution, seeking direct entry admission to the Russ College of Engineering and Technology should have a minimum composite score of 24 ACT and/or 1000 SAT. Applicants not meeting either of these two criteria, but who have a

good high school academic record that includes 4 years of mathematics, 4 years of English, and 1 year each of physics and chemistry, may also apply for direct entry into the college. Students with a strong background in mathematics and science may be admitted with one unit of chemistry or physics, with the missing area to be completed during the first year.

Applicants Not Having Minimum Preparation for Direct Entry (Engineering Programs)

Students not meeting the above minimum preparations may enter the Pre-Engineering Program in University College to develop their abilities in the areas of mathematics, chemistry, and English prior to applying for entry into the Russ College of Engineering and Technology. Following this preparation, entry into the college can be accomplished by earning a grade-point average (g.p.a.) of 2.0 or above in each of the following groups of courses and by meeting a minimum overall g.p.a. of 2.0 on a 4.0 scale.

- 1 MATH 263A, 263B
- 2 CHEM 121, 122 or CHEM 151, 152 as required by intended major
- 3 Completion of the freshman English requirement
- 4 ET 280

A student entering the Pre-Engineering Program in the University College with an intended engineering major, but who does not meet minimum preparation specified (Direct Entry into Russ College of Engineering and Technology), will be identified as a pre-engineering major in the University College and will be assigned an engineering advisor. Students entering into one of the engineering programs in this manner may require more than the usual four academic years to complete the degree requirements.

A student with a record including mathematics and science courses beyond the above minimum required courses will be evaluated on the basis of his or her accumulative record and upon individual grades in English, mathematics, chemistry, physics, and engineering-related courses which the applicant may have completed at the time application is made for admission to the Russ College of Engineering and Technology.

Applicants From Another Country

Admission of applicants from other countries will be based on official transcripts, pertinent documentation of all secondary and post-secondary work, and other evidence as required by the University and Russ College of Engineering and Technology.

Evaluation of work and admission of applicants will be performed by the University examiner and the Russ College of Engineering and Technology.

Applicants from foreign countries must meet the criteria given in this catalog under International Student Applicant in the Admissions section.

Transfer Students

Qualified transfer students are accepted within the guidelines set forth below. Each applicant will be considered on an individual basis, and entrance into the Russ College of Engineering and Technology will be based on his or her qualifications. Transfer credits applicable to engineering and technology degrees are determined by the college and the program department.

Students must earn a minimum of 36 quarter hours at Ohio University, applicable toward their degree after transferring into one of the college's degree programs.

Applicants who have earned fewer than 30 quarter hours of credit are required to meet the minimum preparation designated for entering freshmen.

In general, transfer applicants into one of the engineering programs from other universities and colleges will be evaluated based on an applicant's accumulative g.p.a. on all college work attempted and upon individual grades in English, mathematics, chemistry, physics, and engineering-related courses which the applicant may have completed at the time application is made.

Transfer applicants for the industrial technology and airway science programs will be evaluated on the applicant's accumulative g.p.a. and specific courses completed.

Applicants who have left other institutions for academic or disciplinary reasons will not be considered for admission until after two calendar years following the date from which the applicant has been dropped from another university or college.

Guidelines for the entrance of transfer students into the Russ College of Engineering and Technology follow.

Transfer from Other Universities or Colleges Outside Ohio University

Applicants from other accredited collegiate institutions are expected to have the minimum preparation set forth for entering freshmen and to meet the University's transfer policy. Those applicants eligible to transfer into the University but who do not meet the criteria specified for entering freshmen may be considered for admission, provided they have met the following criteria: (1) they have demonstrated abilities in mathematics and science by earning a minimum of 2.5 on a 4.0 scale in all mathematics and science courses attempted at the institution from which they are transferring; and (2) their overall g.p.a. is above the acceptable minimum level.

Applicants with credentials equivalent to those of freshmen who entered the University College (see Freshman Applicants) and have demonstrated abilities in mathematics, natural science, physical science, and English may be admitted to the engineering programs.

Applicants from two-year institutions following recognized and accredited University Parallel Programs will be evaluated according to the conditions stated for accredited four-year institutions.

Students transferring into one of the engineering degree programs from two-year institutions following an associate's degree program in technology must have a minimum g.p.a. of 3.0 on a 4.0 scale and indicated abilities in the mathematics and science areas. Transfer courses will be evaluated to determine their applicability toward degree requirements.

Transfer Students from Other Colleges Within the University

Students transferring from other colleges within the University are expected to have the same preparation as entering freshmen or to have attained the equivalency of those freshmen who entered the University College and completed the specified mathematics, natural science, physical science, and English courses (see Freshman Applicants) with the specified g.p.a.

Transfer students not meeting the above criteria will be evaluated on an individual basis; however, they must have earned a 2.0 average or better on a 4.0 scale in all mathematics and science courses attempted.

Students Relocating from the Regional Campuses

Students relocating from the regional campuses who have not been admitted to the Russ College of Engineering and Technology as entering freshmen are required to meet the same criteria set forth for students transferring from other colleges within Ohio University.

Academic Requirements

Advising and Program Planning

The student should indicate the choice of discipline on the official application for admission to the University, assuring the assignment of a faculty advisor in the department of his or her choice. If a student has not decided upon the specific major within the college (area of concentration code #ND0910), the assistant or associate dean or the appropriate designate will serve as his or her advisor until a choice of major is made. Students in the engineering programs with demonstrated abilities in the mathematics and science courses needed for the program can, with approval of the dean's office, change their majors within the college and are eligible to take courses in all colleges of the University.

Students not requesting direct entry into the Russ College of Engineering and Technology, or not possessing the minimum preparations as indicated above, will be enrolled in the pre-engineering major (code #ND1105) in University College. These students should read the statements

included in the University College section of this catalog. Students enrolled in the pre-engineering major will be advised by a selected number of engineering faculty designated by the associate or assistant dean. For further information, students should contact the various department chairs or the associate dean.

Course requirements for the freshman year in each of the engineering departments within the Russ College of Engineering and Technology are similar. (The mechanical engineering freshman program is slightly different.) Hence, while it is desirable for an engineering student to indicate a specific major field of study earlier, a student could defer a decision on a specific major field of study until the beginning of the sophomore year.

After completing one of the engineering degree programs in the Russ College of Engineering and Technology, the engineering student is qualified and encouraged to seek, by examination, registration as a professional engineer from the Board of Registration for Professional Engineers of the state where he or she intends to practice. It is to the student's advantage to take the examination during the spring or fall quarter closest to the expected time of graduation or as soon after graduation as possible.

Graduate programs leading to the M.S. degree are available in all of the engineering programs. In addition, graduate work leading to the Ph.D. degree is available in chemical engineering, electrical engineering, and in an interdisciplinary program in an integrated engineering. These programs are described in detail in the *Graduate Catalog* issued by the Office of Graduate Student Services.

Degree Requirements

A candidate for a degree in the Russ College of Engineering and Technology must satisfy all of the curriculum requirements which are applicable toward a degree of his or her particular field as specified on the following pages. Students must earn a minimum of 36 quarter hours applicable toward their degree after entering one of the degree programs.

In addition he or she must satisfy the following:

- 1 A student must have a 2.0 (C) average on all courses attempted which are applicable toward a degree.
- 2 He or she must have a 2.0 (C) average on all courses attempted in the Russ College of Engineering and Technology which are applicable toward a degree.
- 3 He or she must have a 2.0 (C) average on all courses attempted in the major area of study which are applicable toward a degree.
- 4 A student must successfully complete a course by the end of the third enrollment in that course.

Averages will be computed on final hours and points in repeated courses, if any.

Requirements for Continuing in the College

A student enrolled in the Russ College of Engineering and Technology continues in his or her program unless there is demonstrated weakness in the mathematics, science, and engineering-related subjects that would indicate his or her inability to meet the academic requirements of the program. The associate or assistant dean and department chair will make decisions concerning cases of this nature, and the student will be notified accordingly.

In addition to the above overall performance, the specific requirements listed under Deficiency Points and Repeated Courses must be met.

Deficiency Points

A student enrolled in the Russ College of Engineering and Technology continues in his or her program in a normal manner, provided:

- 1 He or she maintains an average of 2.0 (C) or better in all hours attempted at Ohio University which are applicable toward a degree.
- 2 He or she maintains an average of 2.0 (C) or better in all hours attempted in the Russ College of Engineering and Technology that are required for graduation (including technical electives).
- 3 He or she maintains an average of 2.0 (C) or above in all courses attempted in his or her major area of concentration that are applicable toward the degree.

Averages in any of these categories below 2.0 (C) result in deficiency points and probation. The academic record of a student who is on probation or who acquires deficiency points in any quarter is reviewed by the student's department chair and by the associate or assistant dean of the college to determine if such student may continue in the program. A student who is placed on University probation at the end of any quarter must earn a minimum of nine quarter hours of credit with a 3.0 (C) or better average in his or

her next quarter of attendance or be dropped from the University. These credits must be in courses directly applicable to the degree requirements.

In the subsequent quarter, if the student's academic progress is such that he or she is not eligible to be removed from probation, the student's academic record will be reviewed to determine if he or she should be continued. The number of times a continuance may be granted is limited to three; thus, there is an absolute limit of four consecutive quarters on probation. Although the maximum number of times a student may be continued on probation is four, a student on probation may be dropped at the end of any quarter of poor academic performance.

Students who are placed on college or departmental probation at the end of any quarter must receive a 2.0 (C) average or better in subsequent quarters in their engineering and technology and/or major courses or they will be dropped from the Russ College of Engineering and Technology. In addition, deficiency points in the engineering and major subjects normally must be removed within two quarters. Students on probation should discuss the matter with their academic advisors, departmental chairs, and/or the associate or assistant dean of the college. Students who are dropped from the University or from the college may appeal the decision by contacting the associate or assistant dean of the college.

Normally, a petition for reinstatement will not be considered until 12 months after the student is dropped.

Retaking Courses

A student in the Russ College of Engineering and Technology must succeed in a required program course by the third time he or she enrolls in the course. If the student does not meet this requirement, he or she will be dropped from his or her program. Success is a passing grade or, in those courses in which a grade of C is required to continue a sequence, a minimum grade of C or above is necessary for success.

This policy is effective fall 1982 for all students. Repeated courses prior to fall 1982 will not be considered in the count.

Humanities and Social Science Electives

Students in Engineering and Technology are required to take courses in humanities and social sciences. Each departmental curriculum includes a requirement for electives in these areas to be chosen from the courses listed below. Some of these courses may also satisfy University General Education Requirements. Students in engineering should try to plan their electives so as to satisfy the General Education Requirements. All students should plan their selections carefully with the help of their advisors.

Only formal courses are acceptable unless prior approval is given from the dean's office. Courses in selected topics, independent study, etc., are not acceptable without this prior approval. Courses in education, business, or other professional areas, or courses that are remedial in nature, or skills-oriented, are not acceptable. Without prior approval from the dean's office, courses not on this list will not apply towards the humanities and social sciences requirements for the Russ College of Engineering and Technology.

For engineering majors, ABET requirements specify that students should develop a plan for electives that provides breadth and depth through a series of interrelated courses. A student must have at least 24 hours total in humanities/social sciences with a minimum of 8 in each category and must have a sequence or basic/advanced pair in both categories. A sequence is a pair of courses in the same department where one has the other as a prerequisite. A basic/advanced pair is a 3XX and 4XX course, along with a companion course in the same department. The companion need not be a prerequisite for the 3XX or 4XX.

Industrial technology majors must select three courses from different subject areas and have a minimum of 12 credit hours. With prior approval, airway science majors can take alternate courses to the ones marked with an E (elective).

Humanities

- a Art (ART 100, 439)
- b African American Studies (AAS 101, 106, 110, 150, 210, 211, 250, 310, 315, 316, 317, 350, 355, 356, 359)
- c Art History (AH, except 350)
- d Classical Archaeology (CLAR 201, 203, 352)
- e Comparative Arts (CA except 350, 360J)
- f Dance (DANC 170, 351, 352, 353, 370, 471, 472, 473)
- g English (ENG 200 level or above, except 280, 305J, 307, 308J, 309A, 309B, 350, 393, 394, 395, 450A, 450B, 455, 457, 496)
- h Foreign Language: 200 level or above, may not be a primary language of the student
- i Foreign Literatures in English (CLNG; FL; ML 250A-C)
- j Great Books (HUM 107, 108, 109, or 307, 308, 309)
- k History (HIST 121, 122, 123, 314A-F, 328, 329A-C, 330, 351, 352, 353A-B, 354, 356A-C, 357, 370, 389)
- l History and Criticism of Oratory (INCO 353A-C)
- m History of Theater (THAR 270, 271, 272)
- n Music History and Literature (MUS 120, 123, 124, 221, 322, 323, 421A-F, 427, 428)
- o Philosophy (PHIL except 120, 422)
- p Women's Studies (WS 100)

Social Science

- a African American Studies (AAS 135, 202, 220, 225, 235, 254, 340, 341, 345, 360, 364, 368, 370, 380, 430, 431, 432, 440, 460, 482)
- b Anthropology (ANTH except 201, 356J, 492, 496)
- c Economics (ECON except 380, 381, 385, 482)
- d Engineering and Technology (ET 320, 350)
- e Geography (GEOG except 101, 260, 271, 277, 301, 302, 303, 304, 311, 312, 313, 314, 324, 330, 350, 353, 360, 361, 365, 375J, 380, 405, 411, 420, 421, 447, 462, 466, 468, 471, 474, 475, 476, 477, 478, 479, 485, 486, 494)
- f History (HIST except 301J, 396J, 496, and those listed in k, under humanities)
- g INCO 353A, B, C
- h International Studies (INST 103, 113, 121, 350)
- i Linguistics (LING except 445, 451, 452, 453, 460, 480, 481, 482, 483)
- j Political Science (POLS except 482, 483)
- k Psychology (PSY except 121, 226, 241, 275, 301, 312, 314, 315, 321, 327, 351)
- l Social Work (SW except 190, 380, 381, 383, 385, 430A-C)
- m Sociology (SOC except 351, 352, 356J, 450)
- n Women's Studies 400

English Requirement

In addition to the curricular requirements as stated on the following pages for departments in engineering and technology, all students must also satisfy the University curricular requirements in English.

General Education Requirement

Students should plan their curricula to fulfill the University General Education Requirements, as described under the Graduation Requirements section of this catalog.

Pass/Fail Option

Students in the Russ College of Engineering and Technology may elect to take courses on a pass/fail basis within eligibility requirements as stated in the Academic Policies and Procedures section of this catalog.

Retaking a Course

When a course is retaken, only the grade received in the most recent attempt is used to determine the accumulative g.p.a. A course may not be retaken after an advanced course in the same field has been passed if the course that the student desires to retake was a prerequisite for the advanced course.

Course Credit by Examination or correspondence may not be used to earn credit in a course required for graduation which the student has previously failed.

Cooperative Education

Cooperative education opportunities and internships are available in the departments of Chemical, Civil, Electrical and Computer, Industrial and Systems, and Mechanical Engineering, as well as in Industrial Technology. Students participating in a cooperative education experience alternate working in selected industries and enrolling in a full-time academic program on campus. Students participating in this plan will require more than the normal four years to complete degree requirements.

Participation in cooperative education provides a student with valuable career experiences. The alternating work/study periods allow students to integrate classroom theory with practical applications. It also provides students with opportunities to earn money to assist them in financing their education. Students can participate in summer internships.

Students interested in these programs should contact the assistant dean for student careers, Stocker 189.

Exploratory (Undecided) Engineering Students

(Major code #ND0910)

Each year a substantial number of new students entering the Russ College of Engineering and Technology do so without having a firm commitment to any one of the engineering programs offered by the college. The schedule below is suggested for these students and will meet the first-term requirements of all the engineering departments.

Freshman Fall

CHEM 151	General Chem.	5
ET 280	Engr. and Tech.— An Overview	4
MATH 263A	Analytic Geom. and Calc.	4
	Freshman English requirement*	5

Winter

CHEM 152	General Chemistry	5
INCO 103 or IT 101†		4
MATH 263B	Analytic Geom. and Calc.	4
	Other†	3 to 5

Spring

CHEM 123 or 153	General Chemistry	4 or 5
ET 181	Computer Methods in Engr.	4
MATH 263C	Analytic Geom. and Calc.	4
	Other†	7 or 9

Faculty advisors will assist the undecided student in choosing satisfactory electives.

*As required by the department

†All departments will accept INCO 103 (Public Speaking) to fulfill the speech requirement, and some require IT 101 (Engr. Drawing I). These should be taken during the first year. Approved social sciences and/or humanities electives can also be scheduled for this term. ET 181 required of all engineering students.

Degree Programs

Bachelor of Science in Airway Science

(Major code #BS7258)

The program for the airway science degree meets the guidelines of the Federal Aviation Administration (FAA) and prepares students for career opportunities in commercial aviation as FAA-certified pilots, aircrew members, and positions in other aviation-related business and industry. This aviation degree provides students with the ability to undertake roles in the total national airspace system and to progress to supervisory and managerial positions with necessary leadership and human relations skills. Additionally, this educational background should give graduates the broad knowledge base, perspective, and flexibility to accept and cope with the increasingly technical and automated environment of our national airspace system.

Students applying and accepted for the Airway Science Program are placed in the pre-airway science major code (#1208) in the University College. After completing AVN 110 and AVN 240 with a grade of B or better, a student can request entry into the Airway Science Program.

Students are expected to complete all course requirements in one quarter. However, in extenuating circumstances, i.e., bad weather, etc., students can, with permission, carry over completion of the course in the following quarter. Students carrying over course requirements cannot start a new flight course during the carryover quarter. If a student does not complete in this second quarter, he or she is automatically dropped from the program.

A special minor in aviation meteorology is available through the Department of Geography, and a two-year A.A.S. degree in aviation technology is also available at Ohio University.

A course listed as required (R) must be included in the curriculum. A course listed as an elective (E) is a recommended course. It is possible to substitute elective courses in the curriculum as long as the minimum total credits for that subject area are maintained and prior approval is obtained in writing from the department/college.

Core Subject Areas

General Studies

Minimum Hours: 38

ENG 151	Freshman Comp. (R)	5
ENG 305J	Technical Writing (E)	4
ECON 103	Principles of Micro. (E)	4
ECON 104	Principles of Macro. (E)	4
HUM 107	Humanities (E)	4
INCO 101	Fund. of Human Comm. (E)	4
INCO 103	Fund. of Public Speaking (R)	4
POLS 101	American National Government (E)	4
PSY 101	General Psychology (R)	5

Math/Science/Technology**Minimum Hours: 34**

CHEM 121	Principles of Chemistry (E)	4
GEOG 101	Elements of Physical Geog.* (E)	5
MATH 113	Algebra (E)	5
MATH 163A	Analytic Geom. and Calc. (R)	4
MATH 163B	Analytic Geom. and Calc. (E)	3
PHYS 201	Intro to Physics (R)	4
PHYS 202	Intro to Physics (R)	4
PSY 121	Elementary Statistics (R)	5

Computer Science**Minimum Hours: 14**

CS 120	Computer Science Survey (R)	5
CS 220	Intro to Computing (R)	5
CS 230	Computer Programming (E)	5
GEOG 369C	Meteorological Information Systems (E)	4
MIS 300	Business Information Systems (E)	4

Management and Human Resource Management**Minimum Hours: 16**

HRM 420	Human Resource Mgt. (E)	4
MGT 200	Intro to Management (R)	4
MGT 325J	Business Communications (E)	4
MGT 340	Organizational Behavior (R)	4

Aviation**Minimum Hours: 26**

AVN 110	Private Pilot Ground (R)	4
AVN 240	Private Pilot Flight (R)	4
AVN 300	Aviation Laws and Regulations (R)	3
AVN 350	Instrument Ground (R)	4
AVN 360	The National Airspace System (E)	3
AVN 410	Fundamentals of Aviation (E)	4
ISE 248	Human Factors in Aviation (E)	4

Areas of Concentration**Aircraft Systems Management****Minimum Hours: 65**

AVN 310	Adv. Aeronautics for Comm. Pilots (R)	4
AVN 320	Advanced Aircraft Systems (R)	2
AVN 340	Commercial Flight I (R)	4
AVN 343	Commercial Flight II (R)	4
AVN 390	Air Transportation (R)	3
AVN 400	Commercial Flight III (R)	4
AVN 425	Commercial Flight IV (R)	6
AVN 435	Flight Engineer (E)	4
AVN 440	CFI Ground (R)	4
AVN 445	CFI Flight (R)	3
AVN 450	Instrument Instructor Ground (R)	3
AVN 455	Instrument Instructor Flight (R)	3
AVN 465	CFI—Multi-Engine (E)	2
AVN 475	Aviation Internship (E)	5
GEOG 302	Elements of Meteorology* (R)	5
GEOG 304	Obs. in Meteorology and Forecast* (R)	2
GEOG 405	Forecasting in Meteorology (E)	4
IT 220	Aircraft Power Plants (R)	3
	TIER III requirement (R)	4

Total: 198

*GEOG 101, 302, 304 should be taken during freshman and sophomore years.

(R) Required courses

(E) Suggested electives, but substitutes may be made with prior approval.

AVN 420, Commercial Single Engine, and AVN 430, Multi-Engine, available for students not taking AVN 425.

Sixty hours are needed in the area of concentration. An elective from any subject area can be used if additional hours are needed. Make sure Tier II requirements are completed.

A minimum of 192 hours is required for graduation.

Bachelor of Science in Chemical Engineering**(Major code #BS7251)**

The chemical engineering curriculum is planned so that its graduates are familiar with the techniques used in analyzing and solving engineering problems associated with the chemical and related industries (petroleum, metallurgical, plastics, pollution, control, etc.). In addition, the program provides an excellent background for graduate study in engineering, science, business administration, law, or medicine.

Study in chemistry, mathematics, physics, and communication skills is emphasized. Courses in engineering fundamentals are introduced, followed by intensive work in engineering analysis and design. Emphasis is placed upon the application of principles from many fields of study to the solving of engineering problems. Computer solutions, safety, process control theory, economics, and similar topics are stressed. Electives permit the student to pursue his or her interest in humanities, social sciences, and technical areas.

Freshman**Fall**

CHEM 151	Fund. of Chem. I	5
INCO 103	Public Speaking ¹	4
MATH 263A	Analytic Geom. and Calc.	4
	Soc. Sci. or Hum. ²	4

Winter

CHE 100	Intro Chemical Engineering	1
CHEM 152	Fund. of Chemistry II	5
ET 181	Computer Methods in Engr ¹	4
MATH 263B	Analytic Geom. and Calc.	4
	Soc. Sci. or Hum. ²	4

Spring

CHEM 153	Fund. of Chemistry III	5
	English composition ⁴	5
MATH 263C	Analytic Geom. and Calc.	4
CHE 101	Approaches to Problem Solving	3

Sophomore**Fall**

CHE 331	Principles of Engr. Mat.	4
CHEM 305	Organic Chem.	3
MATH 263D	Analytic Geom. and Calc.	4
PHYS 251	Gen. Phys.	5
	Soc. Sci. or Hum. ²	3

Winter

CHE 200	Intro to Chem. Engr. I	4
CHEM 306	Organic Chem.	3
MATH 340	Diff. Equations	4
PHYS 252	Gen. Phys.	5

Spring

CHE 201	Intro to Chem Engr. II	4
CHEM 303	Organic Chem. Lab	2
CHEM 307	Organic Chem.	3
PHYS 253	Gen. Phys.	5
	Soc. Sci. or Hum. ²	4

Junior**Fall**

CHE 400	Applied Chem. Calc.	5
CHE 305	Thermo I	5
CHE 342	Unit Oper. I	5
CHEM 453	Phys. Chem.	3

Winter

CE 301	Applied Mechanics	5
CHE 306	Thermo II	2
CHE 307	Kinetics I	2
CHE 344	Unit Oper. III	4
CHE 418	Materials Lab	2
CHEM 454	Phys. Chem.	3

Spring

CHE 308	Kinetics II	4
CHE 343	Unit Oper. II	5
CHE 408	Engr. Experimental Design	3
CHEM 456	Phys. Chem. Lab	3
CHEM 459	Physical Chemistry	3

Senior**Fall**

CHE 415	Lab III-Unit Oper.	3
CHE 442	Proc. Control	4
CHE 443	Design	5
EE 313	Basic Elec. Engr. I	3
	Technical Elective ³	3

Winter

CHE 417	Lab V- Proc. Control	2
CHE 444	Design	4
ENG 305J	or junior-level composition exemption	4
	Technical Elective ³	3
	Soc. Sci. or Hum. ²	4

Spring

CHE 416	Lab IV-Unit Oper.	3
CHE	Tech Elective	3
	Technical Elective ³	3
	Soc. Sci. or Hum. ²	5
	Tier III requirement	4

The program listed above contains the minimum of 203 hours of required courses for the degree. This assumes that no English composition courses are required.

¹May be taken in any order.

²Note: in general, courses outside the chemical engineering sequence can be taken at any time, provided prerequisites have been met. A minimum of 24 hours must be taken in social studies and humanities, with at least eight hours in each area and adherence to the University General Education Requirements.

³Minimum list available in departmental office. These are courses in the areas of engineering, chemistry, mathematics, physics, plant biology, microbiology, and geology. Minimum of three chemical engineering and nine additional CHE or other tech. elective hours required.

⁴if required by English Composition Placement Exam.

Bachelor of Science in Civil Engineering

(Major code #BS7252)

Civil engineers are primarily responsible for planning the design and construction of all the nation's constructed facilities. They plan, produce, and help to operate the nation's transportation system. They must develop yet conserve water resources. They have a large role in designing the country's environmental protection relating to water, air, and solid wastes. They are involved in housing and urban development. Graduates are prepared to pursue advanced study or to find employment with consulting engineering firms, private corporations, or government agencies.

The civil engineering curriculum is designed to give the student a broad understanding of the basic physical sciences and mathematics. It provides a knowledge of civil engineering principles and practices in the areas of (1) engineering material, including fluids and soils; (2) design of highways and other transportation facilities, including traffic control systems; (3) design and construction of structures of all types; (4) environmental engineering with particular emphasis on water supply and wastewater disposal; and (5) water resources, with emphasis on engineering applications, including hydrology and hydraulics. The curriculum also is designed to promote the student's understanding of the world and its culture by introducing him or her to university-level study in humanities and social sciences. Students may pursue areas of interest by selecting technical electives. Graduates who wish to become registered surveyors as well as registered engineers should choose the proper electives.

A co-op program is available for qualified civil engineering students who have completed their sophomore year. This enables them to obtain technical experience and income by working for private or government organizations while completing their academic studies. The junior and senior course requirements then take a minimum of three years for completion, with co-op work and courses taken in alternate academic quarters.

Freshman

Fall

CHEM 151	Fund. of Chemistry I	5
IT 101	Engr. Drawing I	3
MATH 263A	Analytic Geom. and Calc.	4
	Freshman English requirement	5

Winter

CHEM 152	Fund. of Chemistry II	5
INCO 103	Public Speaking	4
IT 121	Descr. Geom.	3
MATH 263B	Analytic Geom. and Calc.	4

Spring

CE 210	Plane Surveying	4
CHEM 123	Prin. of Chemistry	4
ET 280	Engineering and Tech.— An Overview	4
MATH 263C	Analytic Geom. and Calc.	4

Sophomore

Fall

CE 220	Statics	4
ET 181	Computer Methods	4
MATH 263D	Analytic Geom. and Calc.	4
PHYS 251	Physics	5

Winter

ET 240	Computer Methods in Engineering II	4
ME 224	Dynamics	4
PHYS 252	Physics	5
	Elective	4-5

Spring

CE 222	Strength of Materials	4
CE 223	Strength of Materials Lab	1
MATH 340	Diff. Equations	4
PHYS 253	Physics	5

Junior

Fall

CE 330*	Struct. Theory I	5
CE 340	Fluid Mechanics	5
CE 341	Fluid Mechanics Lab	1
GEOL 283*	Geology	4

Winter

CE 311*	Route Engr.	4
CE 370*	Soil Engr.	4
CE 371*	Soil Engr. Lab	1
ISE 304*	Statistics	3
ME 321	Thermodynamics	4

Spring

CE 342*	Applied Hydraulics	3
CE 343*	Hydrology	3
CE 361*	Transportation	3
CHE 331	Prin. of Materials	4
	Junior English composition requirement	4

Senior

Fall

CE 450*	Water Treatment	3
EE 313	Basic Elec. Engr. I	3
	Electives	

Winter

CE 432*	Concrete Design	4
CE 451*	Wastewater Treatment	3
EE 314 or EE 315	Basic Elec. Engr. II Basic Elec. Engr. III	3
	Electives	

Spring

CE 433*	Steel Design	4
	Electives	

*Course offered only during quarter shown.

The above list shows only courses specifically required for a civil engineering degree. In addition to these, 24 credit hours are required in the humanities and social sciences with no fewer than a sequence of eight in either field. A list of acceptable electives is available in the civil engineering office.

Also required are one senior design course and an additional three civil engineering electives, which may include additional senior design courses. The senior design course will be selected from CE 491A, Land Use; CE 491B, Water Resources-Environmental; CE 491C, Structures-Soils; and CE 491D, Senior Design. Among the three additional electives, the student is required to earn at least three credits of design content. Design credits are shown within parentheses in the following list: CE 424, Str. Mats (1); CE 434, Str. Design (3); CE 457, Water Resources (3); CE 471, Foundations (3); and CE 483, Pavement Design (3). Other electives may be selected from CE 331, Struct. Th.; CE 410, Surv. II; CE 415, Photogram.; CE 445, Flow Routing; and CE 452, Water Analysis.

Qualified students may, with the permission of the instructor, substitute certain graduate-level courses for the foregoing civil engineering electives.

The University freshman- and junior-level English composition requirements will have to be satisfied in addition to General Education Requirements (see section in Graduation Requirements of this catalog). A minimum of 203 quarter hours of credit is required for the degree.

Bachelor of Science in Electrical Engineering

(Major code #BS7253)

The Department of Electrical and Computer Engineering (ECE) is located in Stocker Center, a modern facility housing undergraduate, graduate, and research activities of the department. The department is the beneficiary of a major endowment from the late Dr. C. Paul Stocker, an electrical engineering alumnus. This endowment provides support for facilities and a level of excellence surpassed by few other electrical and computer engineering departments in the U.S.

Electrical engineering addresses the wide application of electrical and electronic phenomena to real-world needs, from consumer goods to space exploration. It encompasses such diverse areas as research, development, design, sales, and operation of electrical and electronic systems. Areas of specialization include such varied fields as circuit design, communications, computers and automata, control systems, electromagnetics, energy sources and systems, power electronics, power system planning, electronics, and instrumentation. For students with an interest in digital computers, there are courses in the department on programming, digital circuits and computer design, and outside courses related to software engineering.

The electrical engineering program in ECE, leading to the Bachelor of Science degree, is accredited by the Engineering Accreditation Council of the Accreditation Board of Engineering and Technology (EAC/ABET). Electrical engineering graduates hold numerous challenging positions in many nonelectrical industries such as chemical, nuclear, automotive, medical, textile, petroleum, and transportation, to name only a few, as well as positions in electronics, communications, power, control, and other electrical industries. The jobs performed by electrical engineering graduates include many diverse activities, such as research, development, design, production and manufacturing, and consulting.

Following a freshman year that is essentially common to all engineering degree programs, the electrical engineering student is promptly introduced to circuit theory and modern electronic instrumentation. The remainder of the sophomore year and the junior year provide a solid analytical foundation for all of the various electrical engineering specialties. The senior year provides an opportunity for the student to specialize in those areas he or she finds most interesting. Courses may be chosen from communications, power systems and energy conversion, network theory, electronics, avionics, electromagnetic fields, computer systems, control systems, and others. For students seeking greater depth and breadth, the Department of Electrical and Computer Engineering offer programs leading to the M.S.E.E. and Ph.D.

Students may earn internship credit by participating in approved internship programs with industry, and approved internships may be applied toward graduation requirements. Ohio University is unique in offering internships in avionics engineering. Recognition of our graduates by government and industry means employment opportunities in a dynamic, exciting technical-specialty field.

The Ohio University Avionics Engineering Center, a research and engineering organization that is a unit within ECE, is extraordinary in providing undergraduate electrical engineering majors direct field and laboratory experience on real-world avionics projects sponsored by federal agencies and industry. Internship course credit can be granted for laboratory work performed, and a number of part-time jobs are supported for qualified students. Interns work directly with the professional faculty and staff on a variety of projects involving instrument landing systems, navigation processors, test flight evaluation, and low frequency navigation sensor systems.

Freshman Fall

CHEM 151	Fund. of Chemistry I ¹	5
MATH 263A	Analytic Geom. and Calc.	4
	Freshman composition ²	5
	Soc. Sci. or Hum. ³	3-5

Winter

CHEM 152	Fund. of Chemistry II	5
ET 280	Engineering and Tech.— An Overview	4
IT 101	Engineering Drawing I	3
MATH 263B	Analytic Geom. and Calc.	4
	Soc. Sci. or Hum. ³	3-4

Spring

CHEM 123	Prin. of Chemistry	4
ET 181	Computer Methods in Engr. I	4
INCO 103	Public Speaking	4
MATH 263C	Analytic Geom. and Calc.	4
	Soc. Sci. or Hum. ³	3-4

Sophomore Fall

EE 210	Circuit Analysis I	4
ET 240	Computer Methods in Engr. II	4
MATH 263D	Analytic Geom. and Calc.	4
PHYS 251	Gen. Phys.	5

Winter

CE 220	Statics	4
EE 200	Intro to Personal Computer Software for EEO	0
EE 211	Circuit Analysis II	4
EE 221	Instrumentation Laboratory	2
MATH 340	Diff. Equations	4
PHYS 252	Gen. Phys.	5

Spring

EE 212	Circuit Analysis III	4
EE 222	Intro to Digital Circuits	3
EE 232	Analytic Foundations in EE	5
ME 224	Dynamics	4
	Soc. Sci. or Hum. ³	3-4

Junior Fall

CE 222	Strength of Materials	4
EE 301	Intermediate Laboratory I	1
EE 310	Linear Systems and Networks I	4
EE 321	Electromagnetics and Materials I	5
EE 340	Electronics I	5

Winter

EE 302	Intermediate Laboratory II	1
EE 312	Linear Systems and Networks II	4
EE 322	Electromagnetics and Materials II	5
EE 341	Electronics II	4
EE 367	Intro to Microprocessors	4

Spring

EE 303	Intermediate Laboratory III	1
EE 335	Energy Conversion	5
EE 371	Applied Probability and Statistics for EE	3
ENG 305J	Technical Writing	4
ME 321	Thermodynamics	4

Senior Fall

	EE Senior Concentration Elective I ⁴	3
PHYS 316	Contemporary Physics	3
	Mathematics Elective ⁶	4
	Soc. Sci. or Hum. ³	3-5
	Technical Elective ⁵	3

Winter

	EE Senior Concentration Elective II ⁴	3
EE 401	Advanced Laboratory ⁷	1
EE 495	Electrical Engineering Design	3
	Technical Elective ⁵	3
	Soc. Sci. or Hum. ³	3-5
	Tier III requirement ⁸	4-5

Spring

	EE Senior Concentration Elective III ⁴	3
EE 402	Advanced Laboratory ⁷	1
	Soc. Sci. or Hum. ³	6-9
	Technical Elective ⁵	6

¹ Alternatives to sequence CHEM 151, 152, and 123 are the following sequences:

CHEM 151, BIOS 170, and BIOS 171;

CHEM 151, PBIO 110, and PBIO 111; or

CHEM 151, GEOL 283, GEOL 211 or 270.

² Freshman English composition requirement can be satisfied in any quarter of the freshman year: ENG 151, Freshman Composition: Writing and Rhetoric, is preferred.

³ Total hours must be at least 24, with at least 8 in humanities and 8 in social sciences. See College of Engineering and Technology section or degree requirements for information on specific course selections.

⁴ Must be taken in the same EE areas each quarter, i.e., controls, communications, power, etc. Contact the ECE department for a list of senior concentration elective courses offered each year.

⁵ Tier IIIA electives are normally 400-level EE courses not used as senior system electives. However, technical electives can (with prior department approval) be other 400-level engineering, mathematics, or computer science courses.

⁶ Can be taken in any quarter of the senior year. Must be selected from the following: MATH 411, 413A, 440, 441, 444, 446, 450A, 460A, 470, or 480A. Other 400-level math courses can be taken with prior approval by the ECE Curriculum Committee.

⁷ Must take at least one structured senior lab. Contact the ECE department for a list of structured labs taught each year.

⁸ Tier III requirement can be satisfied in any quarter of the senior year.

Students transferring from other institutions should consult with the ECE office to determine the remaining requirements for the completion of the degree.

Bachelor of Science in Industrial and Systems Engineering

(Major code #BS7255)

Industrial and systems engineers obtain a broad technical background, with special attention to productivity, costs, quality, and the human factor in production and other systems. These systems include not only physical systems (such as equipment selection/layout, material handling, etc.), but also information systems (manual and automated information systems, computer networks, data bases, software, etc.) and decision/control systems (master production scheduling, inventory management, quality assurance, performance measurement, etc.).

Industrial engineers are responsible for designing, analyzing, rationalizing, optimizing, and controlling these large-scale socio-technical systems. They also supervise the operation of these systems, taking into account such vital factors as quality, throughput, equipment utilization, costs, ecology, energy conservation, recyclability, safety, and health.

Industrial and systems engineers develop performance measures and standards for equipment, workers, and factories to achieve more effective utilization. They apply concurrent engineering principles to design manufacturing systems that fulfill the product realization based on the designs of other engineers.

Courses in the first two years of the program are similar to the curricula of other engineering disciplines and provide the necessary foundation in basic subjects upon which advanced engineering work depends. The last two years of work provide the professional-level material, including computer-related instruction, necessary for the interdisciplinary activities that are required of the modern industrial or systems engineer.

Industrial and systems engineers follow careers in many fields, including manufacturing, transportation, government, banking, insurance, and hospitals. Because of their systems training and experience, many industrial and systems engineers move into management positions after a few years on the job. Salaries are excellent and jobs are plentiful. Because of the increasing need for the U.S. to improve productivity to meet international competition, the need for industrial and systems engineers in manufacturing and other organizations will remain high.

Freshman**Fall**

CHEM 121 or CHEM 151	Prin. of Chem. I Fund. of Chemistry I	4 5
ET 280	Engineering and Tech.— An Overview	4
INCO 103	Public Speaking	4
	Freshman composition	5

Winter

CHEM 122 or CHEM 152	Prin. of Chem. II Fund. of Chem. II	4 5
ECON 103	Prin. Microeconomics	4
IT 110	Manufacturing Processes	4
MATH 263A	Analytic Geom. and Calc.	4
	Electives*	

Spring

ET 181	Computer Methods in Engr. I	4
IT 101	Engineering Drawing I	3
MATH 263B	Analytic Geom. and Calc.	4
	Electives*	

Sophomore**Fall**

ET 240	Computer Methods in Engr. II	4
ISE 231	Intro to Indust. and Sys. Engr.	2
MATH 263C	Analytic Geom. and Calc.	4
PHYS 251	Gen. Phys.	5
	Electives*	

Winter

ACCT 201	Financial Accounting	4
ISE 305	Engineering Statistics I	3
MATH 263D	Analytic Geom. and Calc.	4
PHYS 252	Gen. Phys.	5

Spring

ISE 306	Engineering Statistics II	3
ISE 330	Engr. Economy	3
MATH 340D	Diff. Equations	4
PHYS 253	Gen. Phys.	5
	Electives*	

Junior**Fall**

ISE 307	Engineering Statistics III	3
ISE 333	Work Design	5
ISE 426	Microprocessor Applications	4
MATH 211	Elem. Linear Algebra	4

Winter

CHE 331	Prin. of Engr. Materials	4
EE 313	Basic Elec. Engr. I	3
ENG 305J	Technical Writing	4
ISE 433	Indust. Computer App.	5
ISE 441	Operations Research	3

Spring

CE 301	Applied Mechanics of Materials	5
EE 314 or EE 315	Basic Elec. Engr. II Basic Elec. Engr. III	3 3
ISE 415	Intro to Systems Engr.	3
ISE 448	Human-Machine Systems	3
ME 321	Intro to Thermodynamics	4

Senior**Fall**

ISE 432	Manufacturing Control	3
ISE 435	Quality Control	3
	Electives*	

Winter

ISE 440A	Indust. Plant Design I	3
ISE 445A	Systems Design I	3
	Electives *	

Spring

ISE 440B	Indust. Plant Design II	3
ISE 445B	Systems Design II	3
	Tier III	4
	Electives*	

*A minimum of 39 hours of electives is required, including:

21 hours in social sciences and humanities. Sequences are required in each area including advanced courses in each area. An advanced-level course is defined as one which (1) is at the 300 or higher level (except for courses dual-listed with 100- or 200-level courses); or (2) has a specified prerequisite. (See requirements of the Russ College of Engineering and Technology.)

Six hours in industrial and systems engineering.

Four hours of approved mathematics or science electives selected from BIOS 170, 225; CHEM 123, 153, 345; GEOL 270, 283; MATH 306, 307, 314, 330A, 343, 360, 410, 411, 441, 442, 443, 444, 450A, 470; PHYS 272, 273, 311, 316, 351, 411, 423, 427.

Four hours from Tier III courses.

Four hours of electives to be freely chosen.

Students may specialize in one of a wide variety of fields by the proper choice of electives. We urge students to come to their advisor or to the department office for detailed information about electives.

Bachelor of Science in Industrial Technology

(Major code #BS7256)

Industrial technology is the study of material, production processes, and management procedures used in manufacturing products. This degree program prepares a person for a technical/management position in the manufacturing industry. Typically, an industrial technology graduate is responsible for management and supervision of industrial materials, machines, personnel, and capital in areas of production, process planning, maintenance, and quality assurance.

The industrial technology program prepares a person to be a "technical generalist"; one who knows about a wide range of technical subjects. In addition, since most industrial technology courses are "hands-on" lab courses, an industrial technology graduate has practical experience. The degree includes a minor in business.

There are four components to the curriculum. Each component contributes a valuable part to a graduate's overall preparation for employment. A minimum of 196 quarter hours is required for graduation, including specific degree requirements.

Degree Requirements

Required General Education Courses: 73

Freshman English (ENG 151)
 Junior English (IT 370J)
 INCO 103
 Tier III requirement

Math and Computer Science

CS 220
 MATH 163A, 250B
 QBA 201

Physical Science

CHEM 121, 122
 PHYS 201, 202

Humanities and Social Sciences

ECON 103
 PSY 101

Fine Arts and Humanities or Third World Cultures*

Two elective courses

*Must be selected from the Russ College of Engineering and Technology Humanities and Social Sciences list.

Required Business/Management Courses: 32

ACCT 201
 BUSL 255
 HRM 420
 MGT 300
 MIS 300
 MKT 301
 OPN 310

Required Industrial Technology Courses: 75

IT 100	Introduction to Industrial Technology
IT 101	Engineering Drawing I
IT 102	Engineering Drawing II
IT 103	Computer Applications in Industrial Technology
IT 110	Introduction to Manufacturing Processes
IT 115	Metal Fabrication
IT 117	Basic Metal Machining
IT 150	Wood Technology
IT 215	Metal Casting
IT 217	Production Metal Machining
IT 221	Power Transmission
IT 308	Industrial Plastics
IT 320	Hydraulic Controls
IT 332	Electronics I
IT 333	Electronics II
IT 351	Production Tooling
IT 363	Quality Assurance
IT 390	Industrial Materials
IT 400	Senior Seminar
IT 435	Digital Instrumentation and Controls
IT 452	Computer-Integrated Manufacturing
IT 462	Product Manufacturing

plus 9 hrs minimum of IT electives

Electives: 16

First-Year Program

Industrial technology courses are grouped according to prerequisites and background information required. The following first-level classes are suggested for a student's freshman year. An advisor will help each student plan additional coursework to meet all graduation requirements in a timely manner.

**Freshman
Fall**

IT 100	Intro to Industrial Technology	1
IT 101	Engineering Drawing I	3
IT 103	Computer App. in Industrial Technology	4
IT 110	Intro to Manufacturing Processes	4
PHYS 201	Intro to Physics	4

Winter

IT 102	Engineering Drawing II	3
IT 117	Basic Metal Machining	3
INCO 103	Public Speaking	4
MATH 163A	Analytic Geom. and Calc.	4
PHYS 202	Intro to Physics	4

Spring

IT 115	Metal Fabrication	3
IT 150	Wood Technology	3
PSY 101	General Psychology	5
	English composition	5

Associate Degree Transfer Students

Students who have completed a two-year associate's degree from an accredited college or university in a related technical area may enter the industrial technology program with junior standing. As assessment of previous coursework will determine the remaining requirements for the bachelor's degree.

Bachelor of Science in Mechanical Engineering (Major code #BS7257)

Mechanical engineering is concerned with (1) the economical and ecological conversion of energy from natural sources to provide power, heat, cooling, and propulsion; (2) the design of all types of machines, engines, and vehicles; (3) the processing of materials into useful production; and (4) the development of systems for using machines and resources. Professional areas include research, development, design, testing, production, operation and maintenance, marketing and sales, and administration.

The curriculum provides the versatile academic preparation required to enter the profession and the fundamentals of a liberal education. Theoretical analysis, practicality, laboratory skills, and design synthesis are important factors in the curriculum. The coursework is quite diversified so as to provide the broad background required by mechanical engineers. The opportunity for specialization is provided by elective courses during the senior year. There are three major areas of specialization: energy-systems design, mechanical-systems design, and manufacturing process design.

Students majoring in mechanical engineering as preparation for entry into other professions such as law, medicine, business, etc., should consult with the department chair regarding schedule modification required to meet specific career objectives.

The Department of Mechanical Engineering offers a co-op program that allows those students who wish to do so to acquire practical experience and income by working in industry after completion of the freshman year. Sophomore and junior courses are scheduled to accommodate a work-academics plan based on alternate periods of study and work. Students interested in the co-op program should consult with the department chair.

The Paul H. and Irene C. Black Memorial Fund provides generous scholarships for seniors majoring in mechanical engineering. A good academic record, a history of work to cover the cost of education, and an intent to acquire a graduate degree are key considerations in awarding the scholarship. Contact the department chair for additional information.

Freshman

Fall

IT 101	Engineering Drawing I	3
MATH 263A	Analytic Geom. and Calc.	4
	English composition ¹	5
	Soc. Sci. and Hum. ⁶	

Winter

ET 181	Computer Meth. in Engr. I	4
INCO 103	Public Speaking	4
MATH 263B	Analytic Geom. and Calc.	4
PHYS 251	Gen. Phys.	5
	Soc. Sci. and Hum. ⁶	

Spring

ET 280	Engr. and Tech.— An Overview	4
MATH 263C	Analytic Geom. and Calc.	4
PHYS 252	Gen. Phys.	5
	Soc. Sci. and Hum. ⁶	

Sophomore

Fall

CE 220	Statics	4
CHEM 151	Fund. of Chemistry I	5
MATH 263D	Analytic Geom. and Calc.	4
PHYS 253	Gen. Phys.	5

Winter

CHEM 152	Fund. of Chemistry II	5
IT 117	Basic Metal Machining	3
MATH 340	Diff. Equations	4
ME 224	Dynamics	4

Spring

CE 222	Strength of Materials	4
CE 223	Strength of Materials Lab	1
CHEM 123	Prin. of Chemistry III	4
ENG 305J	Technical Writing	4
	Soc. Sci. and Hum. ⁶	

Junior

Fall

CE 340	Fluid Mechanics	5
CHE 331	Prin. of Engr. Materials	4
ME 321	Intro to Thermodynamics	4
ME 350	Intro to CAD	3
ME 398	Junior Laboratory ²	3

Winter

ET 240	Computer Meth. in Engr. II	4
ME 301	Kinematics and Dynamics of Machines	4
ME 313	Metal Processing	3
	Technical Electives ⁵	

Spring

CHE 418	Chem. Engineering Lab-Materials	2
ME 328	Applied Thermodynamics	4
ME 403	Machine Design I	4
ME 412	Heat Transfer	4

Senior

Fall

EE 304	Basic EE I Lab	1
EE 313	Basic EE I (Circuits)	3
ME 480	Colloquium ⁷	0
ME 491	Mechanical Vibrations I	3
ME 498	Senior Lab ³	3
ME 499	Senior Design Project ⁸	4

Winter

EE 305	Basic EE II Lab	1
EE 314	Basic EE II (Electronics)	3
ME 404	Machine Design II ⁴	4
ME 450	Computer-aided Design	3

Spring

EE 315	Basic EE III (Power)	3
ME 401	Systems Analysis and Controls	4
ME 417	Design of Thermal Systems ⁴	4
	Tier III requirement	4
	Technical Electives ⁵	

¹ All students must meet University freshman and junior English standards.

² Schedule this laboratory during one quarter of the junior year.

³ Schedule this laboratory during one quarter of the senior year.

⁴ Students interested in mechanical design should enroll in ME 404, while those interested in design of energy systems should enroll in ME 417. One can take the other course for a technical elective, if desired.

⁵ Ten quarter credits of technical electives are required, to be selected in consultation with the student's advisor.

⁶ Twenty-four hours of humanities and social sciences with a minimum of eight hours in each area are required. ECON 103 is required as part of the eight hours in social sciences. Course sequences should be selected to build depth in two areas of concentration by taking an advanced-level course in each area. See the College of Engineering and Technology section for more details and course selection.

⁷ Attending the ME symposium and passing a review test are required of all ME students during their last three quarters on campus.

⁸ Consult an advisor regarding Senior Design Project options. Presentations of Senior Design Projects are required.

College of Fine Arts

Dora J. Wilson, Dean

James Stewart, Associate Dean

Bert Damron, Assistant Dean

The College of Fine Arts includes the schools of Art, Comparative Arts, Dance, Film, Music, and Theater. A broad, cultural education in the fine arts is offered, as well as specialized training in the following areas: graphic design, art history, art education, ceramics, painting, photography, printmaking, sculpture, dance, music education, music history and literature, music theory or composition, music therapy, piano, organ, voice, orchestral instruments, acting, production design and technology, and theater arts and drama.

Degrees and Requirements

The Bachelor of Fine Arts degree (B.F.A.) is granted upon completion of programs in the School of Art, the School of Dance, and the School of Theater. The School of Music grants the Bachelor of Music degree (B. Mus.).

All the programs of study within the College of Fine Arts are intended to provide students with a strong foundation in the arts and culture, as well as an opportunity for specialized, professional training. Every effort is made through careful individual advising and a flexible curriculum to meet the individual needs of each student.

In some cases students may be advised that their qualifications are outstanding, and certain courses will be waived from the proposed program of study. Students may request of advisors such a review of qualifications for course waiver. In some cases, additional approval by a faculty committee is required.

Candidates for degree programs in the College of Fine Arts must complete a minimum of 192 quarter hours with an accumulative grade-point average (g.p.a.) of at least 2.0 (C). The minimum number of quarter hours and accumulative g.p.a. for some degree programs is higher, varying according to the requirements of the program.

Admission Requirements

High school applicants to Ohio University who wish to pursue degree programs in the College of Fine Arts may apply for direct entry into the college. Applicants are required to audition if they desire direct entry into programs in the School of Dance, School of Music, or School of Theater. Students requesting direct entry who are not screened in this manner will be accepted as premajors on a provisional basis only. Final acceptance into a major program necessitates meeting all entrance requirements as described under that major.

In addition to general acceptance for admission to Ohio University, students transferring from other colleges and universities are required to audition, submit a portfolio, or meet the requirements as specified by each program in the College of Fine Arts. Applicants are advised to write for detailed information to the director of the particular program in which they are interested.

Ohio University students requesting transfer to major programs of the college also are required to meet the above criteria and should consult the appropriate director prior to applying for transfer.

Advising

The College of Fine Arts maintains a system of academic advising for its majors with assigned members of the faculty serving in such capacity. The advisor keeps a current academic record for each student under supervision and is available for counseling, assisting the student in planning courses, and making sure that all requirements for the major are met. Deviations from the normal course requirements, including waivers, must be approved in writing by the advisor. In some cases, additional approval by a faculty committee is required. Students are urged to meet with their advisors regularly, especially prior to registration, to make sure that they are following an approved course of study.

In any case, each student alone has the ultimate responsibility for making certain that all academic requirements for graduation are being met.

Scholarships and Awards

There are a limited number of scholarships and awards of varying amounts available to majors in the College of Fine Arts. Some awards are renewable; others are granted on a one-time basis, renewable at the discretion of the school involved. Awards are based primarily on talent demonstrated through audition, interview, and/or portfolio submission. In each case, academic performance is considered important. Interested students should contact the director of the appropriate school before January 1, so that arrangements may be made for the appropriate audition or portfolio submission.

Minors

Minors are available in art, comparative arts, dance, film, music, and theater. The minors are designed for those students who are majoring in other fields but who wish, in the course of their formal education, to experience the arts.

Students who wish to declare a minor in the College of Fine Arts should consult with their major advisor, consult with an advisor within the minor program, and receive approval from the College of Fine Arts dean's office to pursue the program.

Any student declaring a minor within the College of Fine Arts must maintain a 2.0 g.p.a. in the minor. As a part of any major program within the College of Fine Arts, a student may select a minor from those offered by any department within the University.

Double Majors

Students who wish to pursue a second major outside the College of Fine Arts should apply for admission to the college offering the second major. See A Second Bachelor's Degree in the Graduation Requirements section of this catalog for specific requirements.

In some cases students may wish to pursue simultaneously two majors within the College of Fine Arts, earning a dual major degree. Such students must be admitted to, and complete all requirements for, each of the desired majors.

Multitalented students who have an established record of achievement in two arts disciplines may apply for admission to the B.F.A. with dual emphasis major, as described below.

Bachelor of Fine Arts with Dual Emphasis

The B.F.A. with a dual emphasis is a degree option designed to meet the interests of the highly motivated and multitalented student who desires to blend the disciplines of more than one school within the college. The program is administered by the College of Fine Arts dean's office. Students interested in pursuing this degree option should do the following:

- 1 Meet with the assistant dean of the College of Fine Arts to determine the two areas of interest and appropriate advisors.
- 2 Meet with advisors in each area to discuss specific program prerequisites and requirements.
- 3 After completion of program prerequisites and a minimum of 45 hours earned, students formally declare the B.F.A. with dual emphasis major in the college office.

Degree requirements for B.F.A. students with dual emphasis are as follows:

- 1 Meet the requirements as specified for each area of emphasis declared. (Program requirements are described in each school's section of the Undergraduate Catalog.)
- 2 Maintain a 3.0 g.p.a. in each area of emphasis.
- 3 Meet all General Education Requirements of the University, earn 192 credit hours of which at least 90 must be at the junior-senior (300-400) level, and satisfy University residency requirements.
- 4 Successfully fulfill the senior project requirements as determined by the student's advisory committee.

School of Art

Joe Bova, Director

The School of Art teaches basic art skills and concepts, which in turn lead to individual creative growth and provide a foundation for critical thinking. This foundation prepares the student for a serious study of art as a studio artist teacher, or as a scholar of art. Art history, theory, and criticism courses offer opportunities for the intellectual and analytical study of art. Studio courses offer experience with tools and concepts leading to the acquisition of technical skills and aesthetic awareness.

Programs are structured to serve individual goals and to permit personal growth; students will elect courses from throughout the University that complement their interests. The curriculum, firmly founded on tradition, extends to include contemporary attitudes, concepts, and techniques. The undergraduate program is enriched by the presence of study abroad opportunities each summer in England and Italy and by a vital graduate program.

The School of Art offers specialized training leading to the Bachelor of Fine Arts (B.F.A.) degree in art education, art history, ceramics, graphic design, painting, photography, printmaking, and sculpture. Many graduates become teachers; enter graduate schools; become professional artists, designers, or photographers; or enter other art-related fields.

The School of Art also offers an art minor for those who wish to develop competence in an area other than their major. (Not open to art majors.)

Art students greatly benefit from the dedication and experience of a faculty of artists/teachers who are professionally active. In addition, other artists and artist/teachers are invited to visit the School of Art for lectures, exhibits, and/or critiques. Through a series of regularly scheduled exhibits, Seigfred Gallery offers students an opportunity to see a variety of original work including a series of graduate student exhibits each spring.

The extensive and diverse facilities enable the school to offer specialized courses in a variety of areas that include, among others, typography, stone lithography, lost-wax casting, and color photography.

There are numerous opportunities in the school and on campus for art students to exhibit their works, including an annual juried undergraduate student show, a graphic design show, and senior shows. Recognition of outstanding art students is made through the Edna Way Scholarship Fund, the Upperclass Deans Scholarship, the Kreckler Prize, and the Rogers Award in art. Additional scholarships from the Mary K. Leonard Art Education Scholarship, the L.C. Mitchell Memorial Scholarship, and the Rose Marie Darst Scholarship are available.

Students are strongly encouraged to consult regularly with an advisor concerning their selection of courses and progress toward fulfillment of degree requirements. A student may contact the School of Art student services coordinator in Seigfred 528 or consult with the chair of the major areas. Art majors may review their records in the School of Art office.

Admission Requirements

All students planning to become art majors enter the School of Art as pre-art majors. Transfer students may submit portfolios to areas after having completed approximately 40 quarter hours of coursework. A comprehensive selection of courses at the freshman level familiarizes students with basic art concepts and provides initial experience in a variety of specific study areas. Sophomore students usually select courses in areas of their particular interests. Also, during the third quarter of the sophomore year, students submit portfolios to major areas for review for acceptance as majors, except for students wishing to major in photography, who submit portfolios for entrance into ART 295, Intermediate Photography. Photography portfolios may be reviewed before the third quarter of the sophomore year. Students are encouraged to consult advisors in selecting majors and preparing portfolios.

Prior to the portfolio review, students who are applying to a major will have completed freshman core courses (ART 100, 101, 102, 128), three courses in the proposed major area, and three studio elective courses (except prospective art education, art history, or photography majors). Major areas will evaluate portfolios and recommend whether or not students will be accepted into the major area. Students who are not accepted may reapply or select

another area in which to present a portfolio. A form indicating the result of the portfolio review will be placed in each student's file.

At the junior level, most students will be enrolled in advanced courses in their major areas. Many courses in the School of Art require prerequisites and/or permission. Permission implies that the faculty may wish to review previously completed work. This may take the form of a portfolio review. The program for seniors includes practicum courses offering preparation for senior presentations and portfolios.

Major Areas and Requirements

Prior to graduation, all students must satisfy the requirements of Ohio University, the College of Fine Arts, and the School of Art.

All major programs within the School of Art require the completion of the freshman core courses: ART 100, 101, 102, and 128 (except photography which requires ART 100, 101, 102, 128, 191, and 192). Prospective ceramics, graphic design, painting, printmaking, and sculpture majors also will complete three courses in the prospective major plus three studio elective courses prior to the portfolio review. Refer to area descriptions for portfolio review procedures for art education, graphic design, and photography. Studio elective courses are any studio courses in the School of Art in an area other than the major. In general, courses numbered 100 are intended for freshmen, courses numbered 200 are intended for sophomores, courses numbered 300 are intended for juniors, and courses numbered 400 are intended for seniors.

Please note that ART 105, 115, 131, 141, 151 (except for graphic design majors), 191, and 192 (except for photography majors) DO NOT fulfill freshmen core requirements, but are intended as introductory media courses; however, these courses can be counted as studio electives.

Refer to the Program Requirements sections that follow for outlines of programs offered in the School of Art. For clarification of Tier I, II, and III courses and requirements, refer to the General Education Requirement section of this catalog. Lists of Tier courses also are available from advisors.

Art Education Major

(Major code #BF5122)

The B.F.A. degree program in art education serves as preparation for the teaching of art in grades kindergarten through 12. In addition to courses leading to teacher certification, the program includes extensive study in studio art and art history.

Application for admission to teacher education should be made during the third quarter of the freshman year; completion of PSY 101, INCO 103, freshman quantitative skills, freshman composition, preprofessional skills test, and a 2.75 accumulative g.p.a. are required.

To become an art education major, a student must submit an acceptable portfolio of studio work for review at the end of the sophomore year. Portfolio reviews are held the first week of May. In addition, art education majors must apply for advanced standing, which requires the completion of EDCI 275 or PSY 275 with a grade of 2.0 or better; the "block program" of EDSE 250, 250L, 270, 270L with a grade of 2.0 or better; 90 quarter hours with a g.p.a. of 2.5 or better; a 2.5 accumulative average or better in ART 461 and 462; and application for EDCI 401, Advanced Field Experience-Multicultural.

Student teaching is normally assigned during one of the quarters of the senior year. Application for student teaching is to be made to the office of the director of student teaching no later than December 1 preceding the academic year in which the student teaching assignment is desired; a 2.5 or better accumulative g.p.a. is required.

Program Requirements

Freshman: 49-51

ART 100	Seeing and Knowing the Visual Arts	3
ART 101	Two-Dimensional Design	4
ART 102	Three-Dimensional Design	4
ART 128	Intro to Drawing	4
INCO 103	Public Speaking	4
PSY 101	Gen. Psych.	5
	Studio Art	12
	Tier I English composition (100 level)	5
	Tier I quantitative skills	4-5
	Social sciences	4-5

Sophomore: 47-52

	Studio Art	12-16
ART 254	Lettering	4
AH 211, 212, 213	History of Art	12
EDCI 275	Learning Proc. in the Classroom	5
or PSY 275	Educational Psych.	4
EDSE 250	Analysis of Teaching	4
EDSE 250L	Field Experience	2
EDSE 270	Studies of Learner	3
EDSE 270L	Field Experience	1
	Science (with lab)	5

Junior: 52-53

	Studio Art	20
ART 461	Art Exper. in the Elem. School	3
ART 462	Art Tchng in the Second. School	3
EDSE 351	Instructional Proc. and Curriculum	5
	Art history/comp. arts elective	12
	Tier I English composition (300 level)	5
	Tier II	4-5

Senior: 50-56

	Studio Art	16-21
EDCI 401	Urban Field Exper.	2
EDCI 480	School and Society	3
EDM 480	Educational Media	4
EDPL 461, 463, 465	Student Teaching	16
EDSE 420	Teaching of Reading in Content Areas	4
EDSE 420L	Field Experience	1
	Tier III	4-5

Total minimum hours required: 196

Other requirements: 76 quarter hours of studio art including at least one course each in two-dimensional art, three-dimensional art, and graphic design; 12 quarter hours of art history and 12 quarter hours of additional art history or comparative arts; and courses required for teacher certification. To achieve proficiency in two studio areas, a 39-hour, two-area concentration must be completed, including a consecutive sequencing of five studio courses at the 200 level or above in one area and a consecutive sequencing of four studio courses at the 200 level or above in another area. It is recommended that the student select one area as being three dimensional and the other area as being two dimensional.

Art History Major

(Major code #BF5123)

The B.F.A. degree program in art history includes a concentration of courses in art history, basic and advanced studio courses, and 35 hours of non-art courses. Students are encouraged to attain a reading knowledge of at least one foreign language. Art history majors enter graduate study, seek employment in museums, or work in related fields. Students are expected to arrange programs with advisors; selection of elective courses, in particular, should be undertaken only after consultation with an advisor.

Program Requirements

Freshman: 49-53

ART 100	Seeing and Knowing the Visual Arts	3
ART 101	Two-Dimensional Design	4
ART 102	Three-Dimensional Design	4
ART 128	Intro to Drawing	4
	Tier I English composition (100 level)	5
	Tier II electives	12
	Electives	13-16

Sophomore 48-53

AH 211, 212, 213	History of Art	12
	Studio electives	12
	Tier II electives	9
	Electives	15-20

Junior 47-53

	Art history	12
	Studio electives	12-15
	Tier I English composition (300 level)	4
	Tier II elective	5
	Electives	14-17

Senior 48-54

	Art history	20
	Tier III	4-5
	Electives	24-29

Total minimum hours required: 192

Graphic Design Major

(Major code #BF6321)

The B.F.A. degree program in graphic design is intended to prepare students to become professionals in the field of graphic design. Many graduates have acquired positions in advertising agencies; other possibilities include illustration, work in publishing houses or greeting card companies, exhibit design firms, related government positions, packaging design, and museum design.

To become a graphic design major, a student must submit a portfolio of studio work for review at the end of the sophomore year. If the portfolio is deemed satisfactory, the student will be accepted into the program. The professional program of study for the junior and senior years is determined through counseling. A student may choose graphic design or illustration. A junior portfolio review is a prerequisite to the senior design sequence. The task of junior portfolio review is undertaken with an eye toward the intensified demands of senior-level studios and ultimately the profession. Senior major courses are individually oriented with provision for independent study. The program concludes with the preparation of a portfolio and a senior design exhibition.

Program Requirements**Freshman: 48-51**

ART 100	Seeing and Knowing the Visual Arts	3
ART 101	Two-Dimensional Design	4
ART 102	Three-Dimensional Design	4
ART 128	Intro to Drawing	4
ART 151	Intro to Graphic Design	4
ART 191	Intro to Photo	4
	Tier I English composition (100 level)	5
	Tier I quantitative skills elective	4-5
	Tier II	12-14
	Electives	4

Sophomore: 50

AH 211, 212, 213	History of Art	12
ART 228	Basic Drawing	4
ART 250	Graphic Design Principles	4
ART 251	Typography	4
ART 254	Lettering	4
ART 328	Drawing	4
JOUR 221	Graphics of Communication	5
	Studio electives	8
	Tier II electives	5

Admission to Major and Junior Studio Sequence requires sophomore portfolio review.

Junior: 54-57

ART 351	Graphic Design: Jr. Studio	5
ART 352	Graphic Design: Jr. Studio	5
ART 353	Graphic Design: Jr. Studio	5
	Art history electives (300 level)	8
	Studio electives	10-12
	Tier I English composition (300 level)	4
	Tier II electives	13-14
	Electives	4

Admission to Senior Design Sequence requires junior portfolio review.

Senior: 43-46

ART 450	Design Practicum	3
ART 451, 452, and 453	Senior Design Studio	15
	Studio electives	6-8
	Tier III	4-5
	Electives	15

Note: graphic design art studio requirements are sophomore portfolio review, application to major, Studio Art Foundations—ART 101, 102, and 128 (12 hrs); ART 151, Intro to Graphic Design (4 hrs); ART 191, Photography (4 hrs); Intermediate Drawing—ART 228 and 328 (8 hrs); and ART 250, 251, and 254

Art studio elective recommendations for graphic design students: printmaking and/or photography (8 hrs).

Ceramics Major (Major code #BF5127)

Painting Major (Major code #BF5124)

Printmaking Major (Major code #BF5128)

Sculpture Major (Major code #BF5126)

The B.F.A. degree program with a major in one studio area provides extensive study in a single medium. Studio majors become professional artists or technicians, enter graduate schools, or work in related fields.

To become a major in ceramics, painting, printmaking, or sculpture, a student must submit a portfolio of studio work for review at the end of the sophomore year. Portfolios are to be presented to faculty in the area selected. If the portfolio is deemed satisfactory, the student will be accepted into the proposed major.

The basic requirements are 45 hours of major coursework: 12 hours of studio foundations (ART 101, 102, 128), and 33 hours of additional studio art classes outside the major area.

Program Requirements**Freshman: 49-53**

ART 100	Seeing and Knowing the Visual Arts	3
ART 101	Two-Dimensional Design	4
ART 102	Three-Dimensional Design	4
ART 128	Intro to Drawing	4
	Tier I English composition (100 level)	5
	Tier I quantitative skills elective	4-5
	Tier II electives	12
	Electives	13-16

Sophomore: 49-54

AH 211, 212, 213	History of Art	12
	Proposed major	12
	Studio electives	8
	Tier II electives	10
	Electives	7-9

Junior: 46-52

Art history elective (300 level)	4
Studio major	15
Studio electives	12-16
Tier I English composition (300 level)	4
Tier II elective	4
Electives	7-9

Senior: 48-54

Art history elective (300 level)	4
Major practicum	3
Studio major	15
Studio electives	13-15
Tier III	4-5
Electives	9-12

Total minimum hours required: 192**Photography Major****(Major code #BF5143)**

Photography majors may concentrate in fine arts photography or in applied photography with emphasis on media and photojournalism. Students intending to major in photography should enroll in ART 191 and 192; a satisfactory portfolio review is required for entrance into ART 295. Acceptance into ART 295 results in acceptance into the photography major. Students may not be enrolled in more than one photography course during any given quarter without written permission from the chair of photography.

The basic requirements are studio foundations (ART 101, 102, 128), ART 490, 30 hours of photography beyond ART 297, and a minimum of 30 hours of studio art classes other than photography.

A qualifying review of professional competence is required after completing five hours of junior-level photography. This junior review by the faculty must be passed as a requirement for graduation.

Program Requirements (includes Tier requirements)**Freshman: 48**

ART 100	Seeing and Knowing the Visual Arts	3
ART 101	Two-Dimensional Design	4
ART 102	Three-Dimensional Design	4
ART 128	Intro to Drawing	4
ART 191	Intro to Photo.	4
ART 192	Basic Photo.	4
	Tier I English composition (100 level)	5
	Tier I quantitative skills	4-5
	Tier II electives	12
	Electives	4

Sophomore: 48-54

AH 211, 212, 213	History of Art	12
ART 295, 296, 297	Interm. Photo.	15
	Studio electives	9-12
	Tier II electives	9-10
	Electives	3-5

Junior: 48-51

AH 307	History of Photography	4
	AH elective (300 level)	4
ART 391, 392, 393 or ART 397, 398, 399	Photo. Arts	15
	Photo. Commun.	15
	Studio electives	9-12
	Tier I English composition (300 level)	4
	Electives	12

Senior: 48-52

ART 490	Photo. Practicum	3
	Photography major	15
	Studio electives	12-15
	Tier II elective	5
	Tier III	4-5
	Electives	9

Total minimum hours required: 192**B.F.A. with Dual Emphasis****Art Emphasis****1 Core/foundations courses: 15 hours**

ART 100, 101, 102, 128. These courses provide basic language and skills for art students and are an introduction to two- and three-dimensional concepts and art theory.

2 Selection of concentration: in selecting the art concentration, students in the program follow the same procedure as other prospective art majors. In the areas requiring a portfolio review for admission as a major, a portfolio review is required at the end of the second year of study or as required by the area.

3 Admission and retention standards are the same as for majors.

4 Practicum requirement: in the areas requiring the practicum course, students in the program are required to enroll in the major practicum course leading to portfolio preparation and participation in a senior show. Practicum courses are intended to provide realistic experience in preparation and selection of work for exhibition.

5 A total of 60-67 hours is required, depending on area of concentration in the School of Art.

Art History Concentration: 63

AH 211, 212, 213	Survey	12
ART 100	Seeing and Knowing the Visual Arts	3
ART 101, 102, 128	Drawing courses	12
	Studio art electives, 200 level	8
	Art history electives	28

Studio Art Concentration: 67

ART 100	Seeing and Knowing the Visual Arts	3
ART 101, 102, 128	Drawing courses	12
	3 courses at 200 level	12
	3 courses at 300 level	15
	2 courses at 400 level	10
	Practicum in major area	3
	Art history	12
	2 courses at 200 level and 1 course at 300 level or 1 course at 200 level and 2 courses at 300 level	

Photo Studio Concentration: 60-64

AH 307		4
	AH elective (300 level)	4
ART 100	Seeing and Knowing the Visual Arts	3
ART 101, 102, 128, 191 and/or 192		16-20
ART 295	and sequence	30
	Photography and practicum	3

Art Minor

The art minor is offered for students not majoring in art who wish to pursue study in an area other than the major. To declare an art minor, the student is to consult with the major advisor, consult with a School of Art advisor, and receive approval from the College of Fine Arts dean's office. A 2.5 g.p.a. must be maintained in the minor.

Requirements for an art minor are:

ART 101	Two-Dimensional Design	4
ART 102	Three-Dimensional Design	4
ART 128	Intro to Drawing	4

Three of the following four courses: 31-34

AH 211, 212, 213	History of Art	
ART 100	Seeing and Knowing the Visual Arts and	11-12

One of the following blocks of courses:

Two 200- or 300-level art studio courses or two 300-level art history courses	8-10
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Minimum hours required: 31

School of Comparative Arts

Admission Requirements

The School of Comparative Arts offers only the Ph.D. degree. Undergraduate course offerings may be used to complete Tier II or elective requirements or to obtain a minor in comparative arts.

Minor in Comparative Arts

CA 117		4
CA 118		4
CA 400	Senior Seminar	3
CA 355A		4
CA 3558		4
CA 355C		4

Two courses or eight hours from:

AH 350		4
AH 351		4
AH 352		4
AH 353		4
AH 354		4
CA/THAR 470		4
CA/THAR 471		4
CA/THAR 472		4
CA/THAR 477		4

Minimum credit hours required: 30

School of Dance

Gladys Bailin, *Director*

The School of Dance, a fully accredited member of the National Association of Schools of Dance, offers an undergraduate four-year professional training program leading to a Bachelor of Fine Arts degree. The overall goal of the school is to prepare its graduates for work in the field and for advanced graduate studies. The major provides students with intensive practice in technique and choreography, the study of history and ethnology, kinesiology, and the teaching of dance. Courses include a strong background in liberal arts education and fulfill dance major and University requirements. The curriculum provides a foundation upon which the student may build a career as a performer, choreographer, scholar, or teacher. Other related experiences in the school, such as technical production and arts administration, offer additional career options.

There are opportunities for performance in the Putnam Studio/Theater for both faculty- and student-choreographed works. Additional performance experience is gained through workshops, programs interrelated with other schools in the College of Fine Arts, and internships.

An extensive visiting artist program enriches the curriculum during the academic year. Major figures in the field of dance teach, choreograph, hold special workshops, and perform on our campus.

Strong individual academic and professional advising characterizes the School of Dance. Each student is encouraged to develop his or her unique talent through classwork and through performance. Progress is evaluated quarterly. Dance majors and minors are expected to maintain at least a 2.7 grade-point average in their dance coursework. Students who are found to be deficient may be placed on probation or advised to modify their program of study.

There are scholarship auditions in November and before February 15 for incoming freshmen. Appointments for visiting the school should be scheduled well in advance by contacting the School of Dance directly or the Office of Admissions. All transfer students intending to major in dance are required to audition as part of the admission process. An appointment for an audition and information on proficiency requirements can be obtained by contacting the director of the School of Dance.

Exceptionally talented and motivated students can pursue an individualized course of study through the Honors Tutorial Program. This program requires a distinctive combination of high school grades, test scores, teacher recommendations, and special achievements. Inquiries for eligibility should be directed to the School of Dance.

Admission Requirements

An audition is required for all students who plan to major or minor in dance. The audition is in the form of a dance class and does not require presentation of previously learned materials. Students who wish to be considered for talent scholarships must be auditioned prior to February 15; otherwise appointments for audition can be made during the school year. Contact the School of Dance, 614-593-1826, for information. Though all prospective students are encouraged to attend auditions on the Ohio University campus, videotapes will be accepted under extenuating circumstances.

Major Areas and Requirements

Major in Dance: 49-60

(Major code #BF5151)

Freshman

DANC 090	0
DANC 101ABC, 102ABC, 103ABC	21
DANC 111	2
DANC 170	4
DANC 230	2
DANC 380	1-3
Tier I English composition (100 level)	5
Tier I quantitative skills	4-5
Tier II	5-9
Electives	6-9

Sophomore: 48-60

DANC 090	0
DANC 201ABC, 202ABC, 203ABC	21
DANC 240	1
DANC 312	3
DANC 331	4
DANC 380	1-3
DANC 441	3
Tier II	10-15
Electives	6-10

Junior: 49-55

DANC 090	0
DANC 301ABC, 302ABC, 303ABC	21
DANC 313	3
DANC 380	1-3
DANC 432	2
DANC 440	2
DANC 442	2
DANC 471	4
English composition (300 level)	4
Tier II	4-5
Electives	6-10

Senior: 43-56

DANC 090	0
DANC 351*	4
DANC 401AB, 402AB, 403AB	15
DANC 473	4
DANC 480	2-4
Tier III	4-5
Electives	12-24

*DANC 351—offered alternate years.

Electives should include a choice of courses in philosophy, psychology, anthropology, studio art, art history, music performance, music history, theater history, acting.

Total minimum hours required: 192

B.F.A. with Dual Emphasis**Dance Emphasis: 34-36**

Basic requirements: total 64 credit hours minimum in School of Dance

DANC 090	Composition Lab	0
DANC 101ABC, 102ABC, 103ABC	Modern Dance Tech. I, Ballet Tech. I, Beginning Comp. (This sequence must be completed in a single year.)	21
DANC 370	Viewing 20th Century Dance	4
DANC 471, 472, or 473	History of Dance I, II, or III	4
DANC 380 (3 qtrs.)	Practicum in Dance Production	1, 1, 1
DANC 480	Production Problems in Dance	2-4

Plus at least 30 credit hours from the following*

DANC 111	Music for Dance I	2
DANC 201ABC, 202ABC, 203ABC	Modern Dance Tech. II, Ballet Tech. II, Intermed. Comp. (This sequence must be completed in a single year.)	21
DANC 230	Intro to Dance Kinesiology	2
DANC 240	Practicum in Teaching Dance I	1
DANC 250	Ethnic Dance of Non- Western Cultures	2
DANC 255	Ethnic Dance of Western Cultures	2
DANC 310	Accompaniment for Dance	2
DANC 312	Music for Dance II	3
DANC 313	Dance Notation I	3
DANC 331	Analysis of Dance Movement	4
DANC 351	Dance Cultures of the World I	4
DANC 352	Dance Cultures of the World II	4
DANC 353	Dance Cultures of the World III	4
DANC 380	Practicum in Dance Production	1
DANC 432	Dance Kinesiology Seminar	2
DANC 441	Teaching Dance I (Children)	3

DANC 471	History of Dance I	4
DANC 472	History of Dance II	4
DANC 473	History of Dance III	4
DANC 490	Independent Study	1-10

*By permission only.

Students must maintain at least a 3.0 g.p.a. in dance to remain in the program. Standards for admission and retention are the same as for dance majors.

Minor in Dance

A dance minor is designed for individuals majoring in other fields but who wish, in the course of their college experience, to gain an understanding of the art of dance. This program may, however, be applied toward the dance major sequence. Anyone wishing to become a dance minor must come to the School of Dance to be auditioned and advised. The first quarter of work is probationary. The minor program includes 30 credits, with a minimum of four credits of nonstudio courses at the 300 level or above. Program approval is required.

DANC 090	0
DANC 101 ABC	7
DANC 102ABC	7
DANC 103 ABC	7
DANC 170	4
DANC 380	1
Dance electives	4-7

It is strongly advised that DANC 101, 102, 103 be taken sequentially within one academic year. Under exceptional circumstances, and with faculty approval, other arrangements may be made.

School of Film

David O. Thomas, Director

Admission Requirements

The School of Film, in conjunction with the College of Fine Arts, offers to a limited number of students a film emphasis as an option through the B.F.A. with dual emphasis. Admission to the program requires a 3.0 g.p.a., submission of a portfolio indicating creative abilities, evidence of writing skills, and a 500-word personal essay indicating applicant's career objectives and goals. Because the School of Film is primarily a graduate program, potential applicants should be aware that there are very few spaces available in the film component of the B.F.A. with dual emphasis.

Major Areas and Requirements

B.F.A. with Dual Emphasis

Film Emphasis

The film emphasis requires a minimum of 66 hours in film with a 3.0 g.p.a. in all film coursework.

A significant element of the film emphasis is the senior project which is designed to provide the student with a portfolio piece upon graduation. The senior project may be a film or video piece, a screenplay, a written B.F.A. thesis, or a multidisciplinary project such as a gallery installation or performance piece.

Core Courses: (required)

FILM 201	Introduction to Film I	4
FILM 202	Introduction to Film II	4
FILM 203	Introduction to Film III	4

Advanced Courses: (required)

FILM 343	Scriptwriting	4
FILM 361	Motion Picture Prod. I	5
FILM 362	Motion Picture Prod. II	5
FILM 363	Motion Picture Prod. III	5
FILM 451 or FILM 452	Theory I Theory II	4

Film History: (8 hrs of the following)

FILM 421	International Cinema I	4
FILM 422	International Cinema II	4
FILM 423	International Cinema III	4
FILM 431	Film History I	4
FILM 432	Film History II	4
FILM 433	Film History III	4

Film Electives: (12 hrs from the following)

FILM 340	Film Techniques	4
FILM 341	Advanced Super-8 Production	4
FILM 452	Film Theory II	4
FILM 453	Film Theory III	4
FILM 471	Film Topics Seminar	1-5
FILM 472	Film Topics Seminar	1-5

Senior Project: (minimum of 10 hrs from the following)

FILM 480	Individual Production Problems	1-5
FILM 482	Independent Study	1-5

Minor in Film

Core Courses: (required)

FILM 201	Introduction to Film I	4
FILM 202	Introduction to Film II	4
FILM 203	Introduction to Film III	4
FILM 340	Film Techniques	4
FILM 343	Scriptwriting	4

Film Electives: (12 hours from the following)

FILM 341	Advanced Super-8 Production	4
FILM 431	Film History I	4
FILM 432	Film History II	4
FILM 433	Film History III	4
FILM 451	Theory I	4
FILM 452	Theory II	4
FILM 471	Film Topics Seminar	1-5
FILM 472	Film Topics Seminar	1-5
FILM 473	Film Topics Seminar	1-5

School of Music

Roger Stevens, Director

The curricula of the School of Music, culminating in the Bachelor of Music degree, are designed to prepare students for careers in teaching, music therapy, or performance. The School of Music makes provision for individual study in vocal and instrumental music and offers a wide range of courses in the fields of theory, composition, electronic music, music history and literature, music education, and music therapy. Opportunities are provided for individual participation in student recitals and for performing experience in various organizations, such as the Choral Union, University Singers, symphonic orchestra, symphonic band, jazz ensembles, and many small chamber ensembles. Performing groups are open to all students enrolled in the University and selection is determined by audition.

The Ohio University School of Music is a member of the National Association of Schools of Music. The requirements for entrance and for graduation are in accordance with the standards set by the association.

The Athens Community Music School (ACMS), a unit within the School of Music, provides instruction for pre-college-age students, University students who are not music majors, and other adults. Private instruction is offered in all instruments and voice. Teachers in the ACMS include regular faculty members, graduate students, and advanced undergraduate students. Details are available from the director of the Athens Community Music School.

The School of Music offers an approved minor (30 hours minimum) in music. The minor may be earned by successfully completing the following courses: theoretical studies (9 hrs)—MUS* 100, 101A, 102A; history and literature (9 hrs)—MUS 120 or 125 and two courses selected from MUS 322, 323, 427, 428; performance studies—major instrument (3 qtrs, 6 hrs), ensemble (3 qtrs, 3 hrs); and music electives (3 hrs).

Requirements for all music majors include the following: proficiency on major instrument and secondary piano, appropriate ensemble participation, music theory, music history, and MUS 090, Concert/Recital Attendance. Specific requirements are outlined in the School of Music undergraduate handbook.

The following course plans outline a practical sequence of required courses which should be of assistance to the student in planning his or her course of study. All students must complete Tiers I, II, and III of the University General Education Requirement. (See Graduation Requirements.)

*MUS 101, 102, 103 may be substituted with the approval of the music theory chairperson.

Admission Requirements

All new students intending to major in music, both freshmen and transfer students, must audition on their major instruments or voice as part of the admission process. An appointment for an audition and information concerning proficiency requirements may be secured by contacting the director of the School of Music. Those students who are accepted but do not meet the required level of proficiency in their major instruments may be placed in small classes with students of comparable ability until the required level of proficiency is reached.

A music theory examination is required of all new students. This examination is given on freshman entrance audition days and at the beginning of each quarter. Specific times and locations for this examination may be obtained from the School of Music office.

Major Areas and Requirements

Bachelor of Music in Performance

The curricula in areas of specialty are designed for students demonstrating (in audition) exceptional talent, a high level of technical competence, and ability to interpret advanced repertoire on their instrument or voice. Students are prepared to perform, stylistically, repertoire from all periods available for their instrument. Experience in solo, chamber music and, when appropriate, large ensemble performance is required. The programs primarily prepare graduates to establish private teaching studios, to engage in professional activity, and to continue study at the graduate level. An emphasis in pedagogy is available for pianists primarily interested in teaching.

Piano

(Major code #BM5100)

Freshman

MUS 090	Performance Lab	0
MUS 101, 102, 103	Theory	12
MUS 125	Intro to Music History and Literature	3
MUS 341	Piano	12
	Performance group	3
	Tier I English comp., quant. skills	9-10
INCO 101		4
	Electives	8-9

Sophomore

MUS 090	Performance Lab	0
MUS 201, 202, 203	Theory	9
MUS 204, 205, 206	Dictation and SS	6
MUS 321, 322, 323	Music History	9
MUS 341	Piano	15
	Performance group	3

Junior

MUS 090	Performance Lab	0
MUS 341	Piano	15
MUS 421C*	Chamber Music Literature	3
MUS 450	Accompanying	3
MUS 455	Conducting	3
MUS 497	Recital	1
	Music theory/lit electives	4-6
	Performance Group	3
	Electives	11
	English comp. (300 level)	4

Senior

MUS 090	Performance Lab	0
MUS 341	Piano	18
MUS 421B*	Piano Literature	3
MUS 458G, H, I	Piano Pedagogy	6
MUS 497	Recital	2
	Performance group	3
	Tier II electives	12-15
	Tier III	4-5
	Elective	3

*May be taken in either the junior or senior year

Minimum credit hours required for graduation: 192

Piano with an Emphasis in Pedagogy

(Major code #BM5104)

Freshman

MUS 090	Performance Lab	0
MUS 101, 102, 103	Theory	12
MUS 125	Intro to Music Hist. and Lit.	3
MUS 341	Piano	12
	Performance group	3
	Tier I English comp., quant. skills	9-10
INCO 101		4
	Electives	9

Sophomore

MUS 090	Performance Lab	0
MUS 201, 202, 203	Theory	9
MUS 204, 205, 206	Dictation and SS	6
MUS 321, 322, 323	Music History	9
MUS 341	Piano	12
MUS 370	Practicum	6
	Performance group	3

Junior

MUS 090	Performance Lab	0
MUS 341	Piano	12
MUS 372	Adv. Functional Skills	2
MUS 458G, H, I	Piano Pedagogy	6
	Music theory/lit electives	6
	Performance group	3
PSY 101, 275		9
	English composition (300 level)	4
	Tier II elective	4-5
	Elective	3

Senior

MUS 090	Performance Lab	0
MUS 341	Piano	12
MUS 370	Practicum	6
MUS 421B	Piano Literature	3
MUS 450	Accompanying	3
MUS 455	Conducting	3
MUS 458E	Class Piano Pedagogy	2
MUS 497	Recital	2
	Performance group	3
	Tier II elective	4-5
	Tier III	4-5
	Electives	6

Minimum credit hours required for graduation: 192

Voice

(Major code #BM5101)

Freshman

MUS 090	Performance Lab	0
MUS 101, 102, 103	Theory	12
MUS 125	Intro to Music Hist. and Lit.	3
MUS 340	Voice	12
MUS 341 or 141, 142, 143	Piano	6]
MUS 375	Diction for Singers	1
	Performance group	3
ITAL 111, 112		8
	Tier I English comp., quant. skills	9-10
	Tier II elective	4-5

Sophomore

MUS 090	Performance Lab	0
MUS 201, 202, 203	Theory '	9
MUS 204, 205, 206	Dictation and SS	6
MUS 340	Voice	12
MUS 341 or 241, 242, 243	Piano	6
MUS 375	Diction for Singers	1
	Performance group	3-6
GER 111, 112		8
	Tier II elective	4-5

Junior

MUS 090	Performance Lab	0
MUS 321, 322, 323	Music History	9
MUS 340	Voice	12
MUS 375	Diction for Singers	1
MUS 457D	Solo Repertoire	1
MUS 497	Recital	1
	Music theory/lit elective	3
	Performance group	3-11
FR 111, 112		8
	English composition (300 level)	4
	Tier II electives	8-10

Senior

MUS 090	Performance Lab	0
MUS 340	Voice	12
MUS 375	Diction for Singers	1
MUS 421F	Literature of Opera	3
MUS 455, 456B	Conducting	6
MUS 457D	Solo Repertoire	2
MUS 458D	Vocal Pedagogy	2
MUS 497	Recital	2
	Music theory/lit elective	2-3
	Performance group	3-12
	Electives	6
	Tier II elective	4
	Tier III	4-5

Demonstration of piano proficiency is required.

Minimum credit hours required for graduation: 203

Organ

(Major code #BM5102)

Freshman

MUS 090	Performance Lab	0
MUS 101, 102, 103	Theory	12
MUS 125	Intro to Music Hist. and Lit.	3
MUS 343	Organ	12
	Performance group	3
	Tier I English comp., quant. skills	9-10
INCO 101		4
	Tier II electives	8

Sophomore

MUS 090	Performance Lab	0
MUS 147, 148	Class Voice	4
MUS 201, 202, 203	Theory	9
MUS 204, 205, 206	Dictation and SS	6
MUS 321, 322, 323	Music History	9
MUS 343	Organ	12
	Performance group	3
	Electives	3-4

Junior

MUS 090	Performance Lab	0
MUS 343	Organ	15
MUS 407A, B, C or MUS 455, 456	Counterpoint	9
MUS 497	Conducting	6
	Recital	1
	Performance group	3
	Theory/lit. elective	3
	Music elective	6
	Elective, French or German	12
	English composition (300 level)	4

Senior

MUS 090	Performance Lab	0
MUS 343	Organ	18
MUS 407A, B, C or MUS 455, 456	Counterpoint	9
MUS 421E	Conducting	6
	Literature of Organ Music	3

MUS 497	Recital	2
	Performance group	3
	Tier II electives	9-10
	Tier III	4-5

Minimum credit hours required for graduation: 192

Orchestral Instruments

Strings, Woodwinds, Brass, or Percussion

(Major code #BM5103)

Freshman

MUS 090	Performance Lab	0
MUS 101, 102, 103	Theory	12
MUS 125	Intro to Music Hist. and Lit.	3
	Major instrument	12
MUS 341 or 141, 142, 143	Piano	6
	Band/orchestra	6
MUS 254*	Chamber Music	3
	Tier I English comp., quant. skills	9-10

Sophomore

MUS 090	Performance Lab	0
MUS 201, 202, 203	Theory	9
MUS 204, 205, 206	Dictation and SS	6
MUS 254	Chamber Music	3
MUS 321, 322, 323	Music History	9
MUS 341 or 241, 242, 243	Piano	6
	Major instrument	12
	Band/orchestra	6

Junior

MUS 090	Performance Lab	0
	Major instrument	12
	Music theory and literature electives	9
MUS 455, 456A	Conducting	6
	Band/orchestra	6
MUS 254	Chamber Music	3
MUS 497	Recital	1
	English composition (300 level)	4
	Tier II electives	12

Senior

MUS 090	Performance Lab	0
	Major instrument	18
MUS 457, 458	Solo Repertoire, Pedagogy	3
	Band/orchestra	6
MUS 254	Chamber Music	3
MUS 304	Instrumentation	3
MUS 497	Recital	2
	Tier II electives	12-14
	Tier III	4-5
	Elective	3

*12 quarter chamber music required for string majors; 9 quarters for other instrumentalists.

Minimum credit hours required for graduation: 206-209

Bachelor of Music in Music Theory or Composition

The curriculum is designed to prepare exceptionally talented students for careers as a theorist or a composer for continued study or graduate work in theory or composition. The curriculum focuses on basic musicianship skills; analytical, aural, and writing skills; compositional facility and technique; and the acquisition of a historical perspective on, and basic knowledge of, technological innovations in the field

Theory

Freshman

MUS 090	Performance Lab	0
MUS 101, 102, 103	Theory	12
MUS 125	Intro to Music Hist. and Lit.	3
	Major instrument	6
	Class Piano ¹	6
	Performance group	3
	Tier I English comp., quant. skills	9-10
INCO 101		4
	Electives	8-10

Sophomore

MUS 090	Performance Lab	0
MUS 201, 202, 203	Theory	9
MUS 204, 205, 206	Dictation and SS	6
MUS 413A	Intro to Electronic Music	2
MUS 415	Microcomputer Applications	3
	Major instrument	6
	Class Piano ¹	6
	Performance group	3
	Tier II electives	16-19

Junior

MUS 090	Performance Lab	0
MUS 310, 311, 312	Composition	6
MUS 321, 322, 323	Music History	9
MUS 407A, B ² , C	Counterpoint	6
	Major instrument	6
	Performance group	3
	English composition (300 level)	4
	Tier II electives	4-5
	Elective	4-5

Senior

MUS 090	Performance Lab	0
MUS 304, 305, 306	Instrumentation, Orchestration I, II	9
MUS 402A, B, C	Styles	9
MUS 421	Electives	9
MUS 455	Conducting	
	Performance group	3
	Tier II elective	4-5
	Electives	3-5

Composition

(Major code #BM5105)

Freshman

MUS 090	Performance Lab	0
MUS 101, 102, 103	Theory	12
MUS 125	Intro to Mus. Hist. & Lit.	3
	Major instrument	6
	Class Piano ¹	6
	Performance group	3
	Tier I English comp., quant. skills	9-10
INCO 101		4
	Tier II electives	8-10

Sophomore

MUS 090	Performance Lab	0
MUS 201, 202, 203	Theory	9
MUS 204, 205, 206	Dictation and SS	6
MUS 413A	Intro to Electronic Music	2
MUS 415	Microcomputer Applications	3
	Major instrument	6
	Class Piano ¹	6
	Performance group	3
	Tier II electives	16-19

Junior

MUS 090	Performance Lab	0
MUS 310, 311, 312	Composition	6
MUS 321, 322, 323	Music History	9
MUS 407A, B, C	Counterpoint	9
	Major instrument	6
	Performance group	3
	English composition (300 level)	4
	Tier II electives	4-5
	Elective	4-5

Senior

MUS 090	Performance Lab	0
MUS 304, 305, 306	Instr. Orch. I & II	9
MUS 402A, B, C	Styles	9
MUS 410, 411, 412	Composition	6
MUS 414	Senior Practicum	2
MUS 421	Electives	9
MUS 455	Conducting	3
	Performance group	3
	Tier III	4-5
	Electives	3

¹ If piano is the major instrument, the secondary instrumental requirement may be satisfied by one of the following methods:

a by taking applied lessons on an instrument other than piano for 6 quarters (1 hour per quarter).

b by taking 3 quarters (2 hours per quarter) of either 261, String Methods and Materials, or 263, Wind and Percussion Methods and Materials, or a combination of both.

² Demonstration of piano proficiency is required.

Minimum credit hours required for graduation: 192

Bachelor of Music in Music History and Literature

(Major code #BM5114)

The curriculum is designed to provide a broad foundation in music history, theory, performance, and research in music for students interested in this and related areas at the graduate level. While diversified in its academic and performance components, the curriculum sufficiently emphasizes each, giving the student a variety of choices in selecting specialization at higher degree levels.

Freshman

MUS 090	Performance Lab	0
MUS 101, 102, 103	Theory	12
MUS 125	Intro to Music Hist. and Lit.	3
	Major instrument	6
	Minor instrument	3
	Performance group	3
	Tier I English comp., quant. skills	9-10
	English electives	10
INCO 101		4
MUS 498	Independent Project*	1

Sophomore

MUS 090	Performance Lab	0
MUS 201, 202, 203	Theory	9
MUS 204, 205, 206	Dictation and SS	6
MUS 321, 322, 323	Music History	9
	Major instrument	6
	Minor instrument	3
	Tier II electives	12-15
	Performance group	3

Junior

MUS 090	Performance Lab	0
MUS 421	electives	9
	Theory electives	9
	Modern languages	12
	Major instrument	6
	English composition (300 level)	4
	History electives	8
	Performance group	3
MUS 498	Independent Project*	2

Senior

MUS 090	Performance Lab	0
MUS 414	Senior Practicum	2
MUS 421	electives	9
MUS 428	Jazz History	3
MUS 455	Conducting	3
	Modern languages	12
	Major instrument	6
	Performance group	3
	Tier II electives	8-10
	Tier III	4-5

Independent Project determined in consultation with music history chairperson.
Demonstrator of Piano proficiency is required

Minimum credit hours required for graduation: 196

Bachelor of Music in Music Education

Students who specialize in music education elect either instrumental or choral emphasis. Upon completion of the requirements of the program, which includes the requirements of the State Board of Education, the student receives the Ohio Special Certificate for teaching music in public schools.

Choral Emphasis

(Major code #BM5106)

Freshman

MUS 090	Performance Lab	0
MUS 101, 102, 103	Theory	12
MUS 125	Intro to Music Hist. and Lit.	3
MUS 163	Intro to Music Education	2
	Major instrument	6
	Minor instrument	3-6
	Performance group	3-6
INCO 101/103		4
	Tier I English comp., quant. skills	9-10
PSY 101		5

Sophomore

MUS 090	Performance Lab	0
MUS 201, 202, 203	Theory	9
MUS 204, 205, 206	Dictation and SS	6
MUS 283	Rec. Mus. Instr. and Mat.	3
	Major instrument	6
	Minor instrument	3-6
	Performance group	3-6
EDSE 250, 250L, 270, 270L		10
PSY 275		4
	Tier II electives	8-10

Junior

MUS 090	Performance Lab	0
MUS 261 or 263	Instr. Meth. Classes	4
MUS 322, 323	Music History	6
	Music history elective	3
MUS 364	Sec. Vocal Techniques	3
MUS 366	Teach. Mus. Elem.	3
MUS 455, 4568	Conducting	6
MUS 468	Gen. Music in JHS	3
	Major instrument	6
	Performance group	3-6
EDSE 351, 420, 420L		10
	English composition (300 level)	4

Senior

MUS 090	Performance Lab	0
MUS 261 or 263	Instr. Meth. Class	4
MUS 413A	Intro to Electronic Music	2
	Music theory elective	3
	Music theory, history, education elective	3
	Performance group	2-4
EDCI 401, 480		6
EDM 480A		2
EDPL 461, 463, 465		16
	Tier III	4-5
	Elective	5

Minimum credit hours required for graduation: 197

Demonstration of piano proficiency is required. See the *School of Music Handbook* for a complete statement concerning requirements.

Senior

MUS 090	Performance Lab	0
MUS 147, 148	Class Voice	4
MUS 261 or 263	Instr. Meth. Classes	4
MUS 413A	Intro to Electronic Music	2
MUS 465	Jazz Ensemble Methods	2
EDCI 480, EDM 480A, EDCI 401		8
EDPL 461, 463, 465		16
	Music history elective	3
	Performance group	2-4
	Tier III	4-5
	Electives	5

Minimum credit hours required for graduation: 204

Demonstration of piano proficiency is required. See the *School of Music Handbook* for a complete statement concerning requirements.

Instrumental Emphasis**(Major code #5107)****Freshman**

MUS 090	Performance Lab	0
MUS 101, 102, 103	Theory	12
MUS 125	Intro to Music Hist. and Lit.	3
MUS 163	Intro to Music Education	2
INCO 101/103		4
PSY 101		5
	Major instrument	6
	Minor instrument	3-6
	Performance group	3-6
	Tier I English comp., quant. skills	9-10

Sophomore

MUS 090	Performance Lab	0
MUS 201, 202, 203	Theory	9
MUS 204, 205, 206	Dictation and SS	6
MUS 261 or 263	Instr. Meth. Classes	4
EDSE 250, 250L, 270, 270L		10
PSY 275		4
	Major instrument	6
	Minor instrument	3-6
	Performance group	3-6
	Tier II electives	8-10

Junior

MUS 090	Performance Lab	0
MUS 261 or 263	Instr. Meth. Classes	6
MUS 304	Instrumentation	3
MUS 322, 323	Music History	6
MUS 362	School Instr. Meth. and Mat.	3
MUS 363	Second, School Instr. Meth. and Mat.	3
MUS 455, 456A	Conducting	6
MUS 464	Marching Band Techniques	2
EDSE 351		5
EDSE 420, 420L		5
	Major instrument	6
	Music education elective	2
	Performance group	3-6
	English composition (300 level)	4

Bachelor of Music in Music Therapy**(Major code #BMS115)**

The curriculum attracts students desiring to pursue a career in music therapy, combining musical talent and interest in the behavioral sciences. The program offers a strong practicum component leading to a six-month internship and meets the curricular guidelines established by the National Association for Music Therapy. Coursework prepares the student for clinical placement in medical, educational, and community health settings.

Freshman

MUS 090	Performance Lab	0
MUS 101, 102, 103	Theory	12
MUS 141, 142, 143	Class Piano*	6
MUS 180	MT Practicum I	1
MUS 181	Intro to Music Therapy	3
MUS 283	Rec. Mus. Instr. and Mat.	3
	Major instrument	6
	Performance group	3
	Tier I English composition	5
HSS 108	Intro Sp. Disord.	5
EDSP 271		4
PSY 101		5
	Dance elective	3

Sophomore

MUS 090	Performance Lab	0
MUS 125	Intro to Music Hist. and Lit.	3
MUS 147, 148, 149	Class Voice†	6
MUS 165 or 166	Class Guitar	2
MUS 201, 202, 203	Theory	9
MUS 204, 205	Dictation and SS	4
MUS 241, 242, 243	Class Piano*	6
MUS 380	Music Therapy Practicum II	3
MUS 281	Obs., Eval., Res. in MT	3
MUS 282	MT Activ. for Classroom and Clinic	3
	Major instrument	6
	Performance group	3
	EDSP Behavioral sci. elective	5

Junior

MUS 090	Performance Lab	0
MUS 261	String Meth. Class	2
MUS 322, 323	Music History	6
MUS 359, 360, 361	Class Piano, Organ, Piano elective	3-6
MUS 366	Teach. Mus. Elem.	3
MUS 380	MT Practicum III	3-6
MUS 381, 382	Psy. Found. Mus. I-II	6
MUS 455	Conducting	3
MUS 481	MT Prin. and Tech. I	3
PSY 121	Statistics	5
PSY 332	Abnormal	4
	Music education, theory, or history elective	3
	Tier I English comp.- technical writing (300 level)	4
	Elective	2

Senior

MUS 090	Performance Lab	0
MUS 263	WW, Brass, Perc., Meth. Class	6
MUS 480	MT Practicum IV	3-6
MUS 482, 483	MT Prin. and Tech. II, III	6
MUS 489 C	lin. Training in MT	1
BIOS 103, HLTH 230 or BIOL 101, BIOS 301		9 11
EDSP	Behavioral sci. elective	10
	Tier III	4
	Electives	8

*Non-piano majors only

†Non-vocal majors only

Minimum credit hours required for graduation: 205

The music therapy curriculum is designed to meet the degree requirements of the School of Music and the National Association for Music Therapy (NAMT).

In addition to the regular coursework, the student must complete the required course MUS 489, Clinical Experience (six-month internship), at an approved clinical training facility for the training of music therapists before graduation. Upon graduation, the student is eligible for listing with NAMT as a registered music therapist (RMT).

B.F.A. with Dual Emphasis**Music Emphasis**

Students who wish to pursue an emphasis in music are required to audition on an instrument or voice as part of the admission process. In addition, students must complete the core sequence of music courses prior to admission to the B.F.A. with dual emphasis program. Students must meet the college requirement of a minimum of 90 hours at the 300-400 level.

Program Requirements: 63-69

MUS 101, 102, 103	Theory	12
MUS 201, 202, 203	Theory	9
MUS 204, 205	Dictation and SS	4
	Music history electives	12
	Major instrument*	12
	Performing group (minimum of 6 quarters)	6-12
	Music electives (300-400 level)	8

*Proficiency required—see School of Music Handbook

Minor in Music**Theoretical Studies**

MUS 100, 101A, 102A	Music Theory*	9
	History and Literature	
MUS 120 or 125		3

Two courses selected from the following:

MUS 322, 323	Music History	3,3
MUS 427 Folk	Music	3
MUS 428	Jazz History	3

Performance Studies

Applied music (3 quarters)	6
Ensemble (3 quarters)	3
Electives (any course or courses in music totaling a minimum of 3 credit hours)	3

Minimum hours required :30

*MUS 101, 102, and 103 may be substituted providing the student achieves a satisfactory score on the Freshman Music Theory Entrance Examination and has the approval of the music theory chairperson.

School of Theater

Toni Dorfman, *Director*

The undergraduate theater experience at Ohio University is a blend of intensive training in a selected area of concentration, core theater studies, and liberal arts experiences leading to a professionally oriented Bachelor of Fine Arts degree.

The theater is not an island unto itself; it exists as a part of and because of a larger world. For this reason, advisors in the School of Theater strive to help theater majors satisfy the University General Education Requirements in a manner that encourages them to understand and contribute to the larger world. In addition, all undergraduate majors devote a portion of their theater studies to an examination of the literature and history of theater, the role of theater in society, and the relationship of theater to other art disciplines.

Production activities in the School of Theater are considered essential to the total curriculum planning of a major. Majors register each quarter for a credited production assignment. Students in the first year of training participate in productions through technical and management assignments, while second-, third-, and fourth-year students have opportunities to participate as performers, advanced technicians, designers, and managerial assistants.

Ongoing individual advising between the student and his or her faculty advisor is an extremely important aspect of the training programs in the School of Theater. Students' progress is evaluated quarterly by the advisor and faculty in the training area. At the end of any quarter, if progress is considered unsatisfactory, the student may be placed on probation, recommended for transfer to another sequence or degree within the school, required to modify his or her program, or denied further enrollment as a degree candidate in the School of Theater.

Other specific requirements and expectations relating to production and curriculum are distributed to all incoming students upon their arrival. A minor or second major is possible in some cases if the student has used careful advising procedures and made intelligent use of all elective and University General Education course options. Students also may enroll in a course of study leading to the Bachelor of Arts degree, available through the College of Arts and Sciences. In addition, highly motivated and talented students can pursue their degree work in the School of Theater through the Honors Tutorial College, if the tutorial mode of instruction is appropriate for the individual student.

Admission Requirements

All majors in the School of Theater audition and/or interview for one of three training areas: actor training, production design and technology, or theater arts and drama. Early application and audition/interview appointments are encouraged due to limitations in the number of students admitted to each program. Auditions and interviews for scholarship consideration are conducted during the fall quarter of each year for students considering entrance the following year.

Major Areas and Requirements

The following information will help to define the various requirements of the School of Theater and will provide specific descriptions of the three degree options.

Theater Core Courses

(Required of all majors)

THAR 101, 102, 103	Intro and Orientation to the Theater as a Profession	3
THAR 110 or 110 Y	Intro to Performance	4
THAR 172	Elements of Performance	3
THAR 130	Intro to Stagecraft	3
THAR 131	Intro to Lighting	3
THAR 132	Intro to Costume	3
THAR 210 or 210Y	Acting I	4
THAR 211 or 211Y	Acting II	4
THAR 270, 271, 272	Theater History I, II, and III	12
THAR 320	Directing	4

Two seminar courses from the THAR 470 series 8

Practicum: All majors are required to enroll in a minimum of one 2-credit practicum per quarter of residence 24

All majors are required to enroll for Lunchbag Theater Seminar each quarter of residence.

Total: 75

Liberal Arts Requirements for Theater Majors

In addition to the Tier I, II, and III requirements, all majors in the School of Theater are required to take two English courses at the 200 level or above. Two Shakespeare courses are strongly advised and may be required in a specific program. (Tier I junior composition does not fulfill this requirement.)

Electives

Distribution of elective hours will vary depending upon degree requirements of a particular area. All students are encouraged to utilize their elective choices in a manner that expands upon the liberal arts experience, particularly with choices in the areas of literature, philosophy, history, and psychology. Students in acting also are advised to strengthen their personal talents in the areas of music, dance, and art.

Acting Major

(Admission by audition and interview only)

The B.F.A. in acting is offered to a limited number of students who demonstrate potential to excel in the craft and art of acting. The acting program integrates (1) a structured sequence of actor training, (2) a strong background in general theater studies, (3) a foundation in liberal arts, and (4) diverse production opportunities. The B.F.A. requires mastery of significant skills and a major commitment to class and laboratory activities. We believe that theater artists eventually should be capable of dealing with all aspects of drama and of contributing to a meaningful relationship between theater and society.

The acting element of the curriculum provides training in improvisation, text analysis, scene study, and voice and movement for the stage (including physical/theater technique, mask, vocal characterization, and speech).

In addition to actor training, the B.F.A. in acting is designed to foster self-motivation and creativity. We seek students who have a serious interest in theater performance and who are committed to self-development and the future of the art of theater.

In the B.F.A. studio classes, students develop vocal, physical, and imaginative capabilities; learn a process of approaching a role; and strengthen working techniques through practical experience with significant dramatic literature. Students are also exposed to the techniques of audition and to the acting process.

The acting faculty meets with each student to evaluate his or her progress and specify areas of strength and weakness in technique. Students who show consistent progress are invited to continue in the program. A student who is struggling academically or programatically will be placed on a probationary status.

The B.F.A. acting curriculum begins in the first quarter of the freshman year. There is no casting of freshmen during the first year or of transfer students during their first quarter. Thereafter, the school's mainstage productions and laboratory theater offerings may provide performance opportunities. Actors may have additional performance opportunities through coursework with the M.F.A. directing students. There is also an opportunity to audition for Ohio University's Monomoy Theater on Cape Cod.

Theater Arts and Drama

(Interview required for admission)

Theater arts and drama is a unique program providing a liberal arts education in theater studies. This program is for students who want a more flexible education than what is offered through the other programs. Theater arts and drama provides the student with a comprehensive education in theater, the liberal arts, and areas of specialization. These specializations include, among others, directing, playwriting, theater history and dramatic literature, theater education, theater and stage management, and performance. It is also possible for the student, in consultation with the advisor, to design a unique, interdisciplinary program around the student's interests. Each student's individual program is developed by the student and the advisor. Careful supervision and advising of each student is an integral part of the program. Finally, theater arts and drama ensures that a student will have a diversified education in disciplines related to theater and an opportunity to explore educational interests throughout the University. This program is, therefore, an excellent foundation for a more specialized education, whether in professional work or graduate school.

In addition to University and theater core requirements, students majoring in theater arts and drama are advised to take the Theater Arts and Drama Workshops (THAR 179, 279, 379) when offered.

To ensure a diversified and wide-ranging education, students are required to complete at least eight credit hours in each of the following areas: literature, fine arts, humanities, and history. Tier II classes can be counted toward meeting these requirements.

At the beginning of the second year of training, each student will declare a primary and secondary area of concentration. An individual course of study, comprising the student's degree requirements, will then be developed in consultation with the advisor. This program must contain a minimum of 43 credits of theater courses. Careful supervision and advising of each student is, therefore, an integral part of the program. At the end of each quarter, each student will take part in an evaluation to determine how the student's course of study should best be continued.

Production Design and Technology

(Interview and portfolio review are required for admission)

The B.F.A. in production design and technology is available with an emphasis on the environmental aspects of performance. Design and technology in scenery, costumes, lighting, properties, sound, and makeup are taught in a series of courses and special projects throughout the four-year curriculum. Productions are prepared under the close personal advisement and participation of the production faculty and staff. Qualified students are challenged with major creative responsibilities.

In addition to the University and theater core requirements, students majoring in production design and technology are required to complete the following:

THAR 230	Stagecraft: Scenery	3
THAR 231	Stagecraft: Lighting	3
THAR 232	Stagecraft: Costume	3
THAR 233	Theatrical Design Skills	3

At least two of:

THAR 331	Theory of Lighting	4
THAR 332	Costume Design I	4
THAR 334	Scene Design	4

At least one of:

THAR 338	History of Costume	4
THAR 438A	Historical Bases of Design I	4
THAR 438B	Historical Bases of Design II	4

At least one of:

THAR 431	Lighting Design II	4
THAR 432	Costume Design II	4
THAR 434	Scene Design II	4

In addition, a minimum of fifteen credits selected from production design and technology classes numbered 300 and above, or areas related to production design and technology approved by the advisor.

Total: 43

B.F.A. with Dual Emphasis

Theater Emphasis

Students who are eligible for the B.F.A. with dual emphasis and desire a theater emphasis must be auditioned or interviewed by the appropriate faculty within the school. A minimum of 69 hours is required, depending on area of concentration.

Theater Core: 45

THAR 101, 102, 103	3
THAR 110 or 110Y	4
THAR 130	3
THAR 131	3
THAR 132	3
THAR 172	3
THAR 210 or 210Y	4
THAR 270	4
THAR 271	4
THAR 272	4
Practicum (5 qtrs in 4 yrs.)	10

In addition to theater core requirements, students choose one concentration from the following:

Acting: 27

THAR 211	4
THAR 212	4
THAR 216A, B, C	6
THAR 217A, B, C	6
THAR 311	3
Senior Project*	4

Theater Arts and Drama

This theater area is designed to serve the needs of theater majors and B.F.A. degree candidates with generalist interests in theater or specific interests where a general knowledge of theater and allied fields is required. This includes stage managing, directing, playwriting, dramaturgy, teaching, arts administration, etc. Courses and practicum selections in this area are highly individualized.

Credit Total: 24 (incl. Senior Proj.*)

Production Design and Technology Concentration

At least two of:

THAR 230	Stagecraft: Scenery	3
THAR 231	Stagecraft: Lighting	3
THAR 232	Stagecraft: Costume	3
THAR 233	Theatrical Design Skills	3

At least two of:

THAR 331	Theory of Lighting	4
THAR 332	Costume Design I	4
THAR 334	Scene Design	4

Theater electives (with at least 4 credits at the 400 level: other than practicum): 12
Senior Project is an option and would be included among the electives.

Total : 26

*The Senior Project is particular to this degree and is intended to serve as a focal point for the student's studies in the School of Theater. The project may take the form of a one- person performance, a specific design project, or an internship.

Minor in Theater

Required Core Courses: 13-14

THAR 110 or 110Y	4
THAR 172 or 170	3-4
Practicum	6

(minimum of 3 experiences; at least 1 in PD&T or Mgt)

At least one course (not less than 3 credits) in each of the following groups:

1	THAR 130, 131, 132	3
2	THAR 210 or 210Y; 218A, B, C; 179, 279, 379	4
3	THAR 270, 271, 272; 470 series	4

Total Required Groups: 11

Electives:

Minimum Electives: 5-6
(chosen from any available course in the School of Theater)

Total: 30

College of Health and Human Services

Barbara Chapman,
Dean

Lee Cibrowski,
Associate Dean

Margaret Goodwin,
Assistant Dean for Student Services

Established by the Board of Trustees in 1979, the College of Health and Human Services is made up of the School of Health Sciences, the School of Hearing and Speech Sciences, the School of Human and Consumer Sciences, the School of Nursing, the School of Physical Therapy, and the School of Recreation and Sport Sciences. To provide students with a variety of local clinical education opportunities, the schools operate the Speech and Hearing Clinic, the Child Development Center, Therapy Associates, the Aquatic Center, the Golf Course, and Bird Ice Arena. The college also administers recreational/intramural sports and the employee wellness program, Healthbeat.

The mission of the College of Health and Human Services is to establish an environment for students to pursue undergraduate and graduate degrees in health and human services fields. Programs within the college combine academic coursework with practical field and clinical experiences, providing students with basic knowledge, intellectual skills, and professional capabilities that enable the graduate to think and act positively and creatively in the face of ever-changing societal and human conditions.

College Objectives

The purposes of the College of Health and Human Services are:

- 1 To offer interdisciplinary programs designed for professionals with career objectives in the health and human services fields. The programs are oriented toward working with people with needs typically related to such areas as aging, day care, mental health, developmental disabilities, rehabilitation, nutrition, the family, environmental concerns, social welfare, justice, adolescence and youth, and the management of human and economic resources.
- 2 To promote interdisciplinary research and development activities to expand the knowledge base in the health and human services fields and to disseminate information useful to theory and practice.
- 3 To develop effective outreach programs that contribute to the continuing education of professionals and supplement the health care and human services provided to the people in the region and the state of Ohio.

Degrees and Requirements

The College of Health and Human Services offers curricula leading to a Bachelor of Science degree in Environmental Health, Health, Hearing and Speech Sciences, Human and Consumer Sciences, Industrial Hygiene, Nursing, Physical Education, Physical Therapy, Recreational Studies, and Sport Sciences.

Graduate programs also are available in the schools of Health Sciences, Hearing and Speech Sciences, Human and Consumer Sciences, and Recreation and Sport Sciences. All programs are described in detail in the *Ohio University Graduate Catalog*.

Each candidate for a degree in the College of Health and Human Services must earn 192 quarter hours of credit with a minimum total grade-point average (g.p.a.) of 2.0 (C) and complete the major program requirements. Students who are pursuing teacher certification must meet the criteria for selective admission and retention to teacher education as established by the College of Education (see Admission to Professional Education section for further information). Students wishing to transfer into the College of Health and Human Services from other Ohio University colleges must have an accumulative g.p.a. of 2.0. Some major programs such as athletic training, nursing, and physical therapy have unique entrance requirements in addition to those required for admission to Ohio University. These and other specific program requirements will be found in the description of each school on the following pages.

Advising

A student entering the College of Health and Human Services is assigned a major advisor who is a faculty member in the school in which the major program resides. Faculty advisors assist students in preparing schedules and are available to discuss academic and career related topics. However, the student is responsible for completing all University, college, and school requirements for the degree.

Gerontology Certificate Program

The colleges of Arts and Sciences and Health and Human Services jointly sponsor the undergraduate Gerontology Certificate Program for students in any major program within the University who want to gain knowledge and skills for a career in working with the elderly.

Certificate Requirements

Students will complete at least 28 credits hours from the following specified list of courses including an approved practicum, field experience, or internship. The required "gerontology oriented" practicum, field experience, or internship cannot contribute more than 5 credit hours to the total 28 hours required for the certificate.

HCCF 380	Death and Dying	4
HCCF 462F	The Aged Family	3
HLTH 225	Long-Term Care Admin. I	4
HLTH 325	Long-Term Care Admin. II	4
HLTH 413	Health Aspects of Aging	4
HSS 300	Communication Disorders in the Elderly	3
NBSP 491B	Gerontic Nursing	5
PSY 374	Psychology of Adulthood and Aging	4
SW 381	Counseling Older Adults	4
SW 395	Aging in the Welfare State	4

Others with prior approval by program director

Practicum/Field Experience Options

HCCF 499	Field Experience-Child and Family Living	12
HLTH 364	Community Health Field Experience	5
HLTH 464	Community Health Services Practicum	15
HLTH 480	Practicum in Health Admin.	10
HLTH 481	Internship in Health Admin.	15
SW 490A	Social Work Practice	8

Others with prior approval by program director

A Gerontology Certificate is awarded upon completion of degree and certificate requirements, and a notation of the award is recorded on the permanent record (transcript). Students seeking the certificate must consult with the director to ensure that the certificate will be awarded. For more information on course offerings or other concerns, contact the director of the Gerontology Certificate Program.

School of Health Sciences

To Be Named, *Director*

The School of Health Sciences is designed to serve students with diverse career interests: community health services, environmental and occupational health and safety, health administration, and health education. Basic preparation for these careers is accomplished by completing the professional curricula that lead to a Bachelor of Science in Environmental Health, Bachelor of Science in Health, or Bachelor of Science in Industrial Hygiene.

The opportunities vary for professional preparation in the school. Community health study prepares students for entry-level management positions in public health/health promotion agencies, social task force agencies, and other non-institutional health agencies. Students are prepared to develop programs for assessing and planning health programs according to the needs of the community being served.

Environmental and occupational health and safety students focus their studies on those factors that may cause, or contribute to, impaired health of individuals in any environmental setting. The industrial hygiene option deals with industrial hazards and how the hazards affect individuals in the workplace. The environmental health option prepares students for a career in one of the many fields of public health. It also qualifies students to sit for the examination to obtain professional registration as a sanitarian.

Health administration programs focus on preparing students for entry-level management positions in hospitals, long-term care facilities, and other health delivery systems. Blending business techniques and tools with health care applications and principles, students are taught to deal with complex organizational structures and associated business complexities. Students electing to specialize in long-term care administration receive an undergraduate Gerontology Certificate and are eligible, upon degree completion, to sit for the Ohio and National Nursing Home Administrator's licensure examination.

Health education is focused on providing the skills necessary to teach in secondary schools or community agencies. This area includes not only health, but health promotion, disease prevention, and wellness. Students wishing to work in areas other than schools have the opportunity to prepare for such positions in business as employee wellness programs and other pro-health organizations.

All programs provide either practica, internships, or student teaching experiences in order to provide students with practical experiences complementary to their academic coursework.

Note: most courses offered through the School of Health Sciences can be retaken up to two times (i.e., one initial registration and two retakes). Variable credit courses usually cannot be retaken (i.e., possibility of initial grade being removed), but can be repeated for credit to count toward one's degree.

Community Health Services

(Major code #BS8105)

This program provides students with background courses and field experiences that qualify them for positions in community health. A Bachelor of Science in Health will be awarded to those students completing the prescribed course of study.

Health Science Core

BIOS 103	Human Biology	5
CS 120 or HS 309	Computer Science Survey Microcomputer Applications	3 4
HLTH 202	Health Sciences and Lifestyle Choices	4
HLTH 204	Drugs, Alcohol, and Tobacco	4
HLTH 217	Intro to Health Care Organizations	4
HLTH 230	Medical Terminology for Health Admin.	4

Required Related Courses

EDCE 410	Human Relations	3
EDCE 440	Foundations of Group Dynamics	4
or INCO 205	Group Discussion	4
EDCI 275	Learning Processes in Classroom	5
or PSY 275	Educational Psychology	4
EDM 480	Intro to Educational Media	4
EH 260	Intro to Environ. Health and Safety	4
HCFN 128	Intro to Nutrition	4
HLTH 227	First Aid	3
HLTH 228	CPR	1
HLTH 327	Instructor First Aid	3
HLTH 328	CPR Instructor	3
HLTH 330	Community Health Epidemiology	4
HLTH 364	Community Health Field Experience	2-5
HLTH 370J	Writing for Health Science	4
HLTH 379	Teaching of Health	5
HLTH 390	Community Health	3
HLTH 425	Controlling Stress and Tension	2
HLTH 427	Health of Women	4
HLTH 464	Community Health Services Practicum	15
HLTH 495	School Health Problems	5
HPES 409 or PSY 121	Tests and Measurements Elementary Statistics	4 5

Environmental and Occupational Health and Safety

Environmental and occupational health and safety professionals are devoted to the evaluation, control, and protection of those factors that may cause or contribute to impaired health of individuals in any environmental setting.

The environmental health science option prepares students for a career in one of the many fields of public health. It also fulfills the educational requirements for registration as a sanitarian and for admission to a graduate school of public health. The Bachelor of Science in Environmental Health will be awarded to students completing the prescribed course of study.

The industrial hygiene option prepares students for a career as an industrial hygienist concerned with how noise, dust, vapors, and other hazards common to the workplace affect the worker's health. Graduates may be employed by private laboratories, industrial firms, insurance companies, or governmental agencies. They may enter graduate programs in industrial hygiene, public health, or other health-related disciplines. Students completing the prescribed course of study will be awarded the Bachelor of Science in Industrial Hygiene degree.

Environmental and Occupational Health and Safety Core

BIOS 103	Human Biology	5
BIOS 302	Human Anatomy for Nonmajors	6
BUSL 370	Environmental Law	4
CHEM 151, 152, 153	Fund. of Chemistry	15
CHEM 301, 302	Organic Chemistry	6
CHEM 330	Intro to Toxicology	4
CS 120 or HS 309	Computer Science Survey Microcomputer Applications	3 4
ECON 103	Principles of Economics	4
HLTH 330	Community Health Epidemiology	4
or MICR 418	Epidemiology	4
INCO 103	Fund. of Public Speaking	4
MATH 115 or MATH 163A	Pre-Calculus Intro to Calculus	5 4
MICR 211, 212	Environ. Microbiology and Lab	6
PHIL 130	Intro to Ethics	4
PHYS 201, 202	Intro to Physics	10
PSY 101	General Psychology	5
PSY 121	Elementary Statistics	5
SOC 101	Intro to Sociology	5

Environmental Health Science

(Major code #BS6260)

Required Professional Courses

EH 260	Intro to Environ. Health and Safety	4
EH 310	Water Supply and Wastewater Environ. Health Practice	4
EH 312	Solid and Hazardous Waste Management	4
EH 330	Food Quality Control	4
EH 430	Vector Control and Pesticide Use	4
EH 440	Air Quality and Pollution Control	4
EH 450	Institutional Environ. Health Practice	4
EH 455	Recreational Environ. Health Practice	4
EH 457	Environ. Health Planning and Program Admin.	4
EH 464	Environ. Health Practicum	15
IH 200	Intro to Industrial Hygiene, Occup. Safety and Health	4
IH 400	Industrial Hygiene Sampling and Analysis	5
IH 415	Intro to Radiological Health	5

Industrial Hygiene

(Major code #BS3309)

Required Professional Courses

CHEM 241, 242	Quantitative Analysis and Lab	5
CHEM 325	Instrumental Methods of Analysis	4
ECON 104	Prin. of Macroeconomics	4
EH 260	Intro to Environ. Health and Safety	4
EH 310	Water Supply and Wastewater Environ. Health Practice	4
EH 312	Solid and Hazardous Waste Management	4
EH 440	Air Quality and Pollution Control	4
HLTH 227	First Aid	3
HLTH 228	CPR	1
HLTH 230	Medical Terminology for Health Admin.	4
IH 200	Intro to Industrial Hygiene, Occup. Safety and Health	4
IH 400	Industrial Hygiene Sampling and Analysis	5
IH 401	Hazardous Materials in the Workplace	4
IH 405	Ventilation for Contaminant Control	4
IH 410	Physical Hazards: Evaluation and Control	4
IH 415	Intro to Radiological Health	5
IH 420	Hazardous Material: Management and Control	4
IT 483	Industrial Safety	3
MGT 200 or MGT 300	Intro to Management	4

Health Administration

Health administration offers two options: the health services administration option prepares students for entry-level management positions in all sectors of the health care industry. They are prepared for positions in acute, sub-acute, and ambulatory care facilities such as hospitals, clinics, home health agencies, insurance companies, health maintenance organizations, and other emerging delivery systems.

The long-term health care administration option prepares students for a career in the management of nursing and other long-term care facilities. It fulfills the academic preparation necessary for students to qualify to take the licensure examination of the Ohio Department of Health Board of Examiners for Nursing Home Administration, as well as the National Licensure Examination.

At the completion of either course of study, students will be awarded a Bachelor of Science in Health. Upon completion of the long-term health care administration option, students will also qualify for an Ohio University Undergraduate Gerontology Certificate (see Gerontology at the beginning of the College of Health and Human Services section).

Health Administration Core

BIOS 103	Human Biology	5
CS 120 or HS 309	Computer Science Survey Microcomputer Applications	4
HLTH 202	Health Sciences and Lifestyle Choices	4
HLTH 204	Drugs, Alcohol, and Tobacco	4
HLTH 217	Intro to Health Care Organizations	4
HLTH 230	Medical Terminology for Health Admin	4
HLTH 316	Human Resource Management and Training in Health Care	4
HLTH 340	Contemporary Problems in Health Care Org.	4
HLTH 421	Financial Administration of Health Facilities	4
HLTH 422	Reimbursement Payment Systems in Health Care	4
HLTH 480	Practicum in Health Admin.	10
HLTH 481	Internship in Health Admin.	15

Health Services Administration

(Major code #BS8119)

Required Professional Related

ACCT 201	Financial Accounting	4
ECON 103	Principles of Microeconomics	4
HLTH 330	Community Health Epidemiology	4
HLTH 335	Admin. of Acute Care Facilities	4
INCO 103	Public Speaking	4
MGT 200 or MGT 300	Intro to Management Management	4

Plus 20 hrs from ACCT, BUSL, EH, FIN, HRM, HLTH, IH, INCO, MGT, MKT at the 200 level or above.

Long-Term Health Care Administration

(Major code #BS6836)

Required Professional Related

ACCT 201	Financial Accounting	4
EH 260	Intro to Environ. Health and Safety	4
ECON 103	Principles of Microcomputers	4
EDCE 410	Human Relations	3
HCCF 380	Death and Dying	4
HCFN 128	Intro to Nutrition	4
HLTH 225	Long-Term Care Admin. I	4
HLTH 325	Long-Term Care Admin. II	4
HLTH 330	Community Health Epidemiology	4
HLTH 405	Long-Term Care Admin. III	4
HLTH 413	Health Aspects of Aging	4
INCO 301	Empirical Research Applications	5
or PSY 121	Elementary Statistics	5
or SOC 351	Elementary Research Techniques	4
MGT 200	Intro to Management	4
or MGT 300	Management	4
PSY 101	General Psychology	5
PSY 374	Psychology of Adulthood and Aging	4
SW 101	Intro to Social Welfare and Social Work	3
SW 381	Counseling Older Adults	4
SW 395	Aging in the Welfare State	4

Plus 9 hours from HCCF, PSY, SOC, or SW at the 300 level or above

Health Education

(Major code #BS6837)

A major in health education prepares students for careers as health educators in school and community settings. Upon completion of this program, students are eligible for an Ohio teaching certificate (grades 7-12). Graduates also may be employed as community health educators with public, private, and voluntary health agencies, including hospitals, family planning associations, state, county, and city health departments, and agencies such as the American Red Cross, and the American Heart Association. Opportunities also exist as health education specialists and consultants with corporate wellness programs, fitness centers, and YMCAs. A Bachelor of Science in Health will be awarded to those students completing the prescribed course of study.

Students must meet the criteria for selective admission and retention to teacher education as established by the College of Education (see Admission to Professional Education in the College of Education section for further information).

Required Teacher Education General Education Courses

The current state of Ohio requirements for teacher certification state that a person applying for a teaching certificate must complete 45 quarter hours of general education courses well distributed in the areas of science and mathematics; social sciences; English and/or foreign language; and comparative arts and/or philosophy.

Students also must complete Ohio University's General Education Requirements (see General Education Requirements in the Graduation Requirements section of this catalog). Students are encouraged to work closely with their faculty advisor to make certain that both sets of requirements are met.

The breakdown of these teacher certification general education course requirements is:

Science and Mathematics

CHEM 121	Principles of Chemistry	4
GEOG 201	Environ. Geography	4
or GEOL 215	Environ. Geology	4
	Tier I math requirement	5

Comparative Arts and/or Philosophy

Each student is required to complete at least two courses in this area. The two courses need not be in the same field. Possibilities include any course in philosophy; comparative arts; HUM 107, 108, 109, 307, 308, or 309; art history; art (except 360, 461, and 462); music (except music education courses, music therapy courses, and the one- and two-hour participation courses); and theater history courses.

Social Sciences

PSY 101	General Psychology	5
SOC 101	Intro to Sociology	5

English and/or Foreign Language

Each student is required to complete at least two courses in English and/or foreign language. The two courses need not be taken in the same field. Freshman and junior English composition courses taken to satisfy the University General Education Tier I requirements may be used toward completion of these hours.

In addition, students must complete INCO 103 to be admitted to Professional Education within the College of Education.

Foundations of Health Courses

BIOL 101 or BIOS 170	Principles of Biology Intro to Zoology	5 5
BIOS 103 or HCCF 360	Human Biology Human Sexuality	5 4
BIOS 302	Human Anatomy	6
BIOS 345	Human Physiology	4
HCFN 128	Intro to Nutrition	4
HLTH 101	Intro Health and Human Services Professions	2
HLTH 202	Health Sciences and Lifestyle Choices	4
HLTH 204	Drugs, Alcohol, and Tobacco	4
HLTH 227	First Aid	3
HLTH 228	CPR	1
HLTH 379	Teaching of Health	5
HLTH 390	Community Health	4
HLTH 495	School Health Problems	5
HPES 390	Safety Education	4
HPES 409	Tests and Measurements	4
MICR 211, 212	Environ. Microbiology	6

Required Professional Education Courses

EDCI 275 or PSY 275	Learning Processes in the Classroom Educational Psychology	5 4
EDCI 401	Advanced Field Experience—Multicultural	2
EDCI 480	Teacher, School, and Society	4
EDM 480	Intro to Educational Media	4
EDPL 463, 464	Student Teaching	13
EDPL 465	Student Teaching Seminar	3
EDSE 250, 250L	Analysis of Teaching Char. and Teaching Tasks	6
EDSE 270, 270L	Studies of the Learner and Lab	4
EDSE 351	Instructional Process and Curriculum	5
EDSE 420, 420L	Teaching of Reading and Lab	5

School of Hearing and Speech Sciences

Edwin Leach, Director

The school grants B.S., M.A., and Ph.D. degrees in hearing and speech sciences. The bachelor's degree is considered to be preprofessional. Students completing the bachelor's program must be eligible to go on to graduate school to obtain clinical and teacher certification. Graduate school admission is competitive, and most programs require at least a 3.0 or better overall g.p.a. to be considered for admission.

Practicum training occurs in the campus Speech and Hearing Clinic, regional speech clinics, public schools, mental retardation centers, and other off-campus clinical or educational settings. Consultation concerning all types of communicative disorders may be scheduled with the coordinator of clinical services. Remedial training and diagnostic evaluations are provided to University students at no cost. The audiological division evaluates all types of hearing problems, including hearing aid evaluations, in people from infancy to old age. Fees are charged for speech and hearing services to other than enrolled students. Research in therapy, acoustics, and other areas of communication is conducted in well equipped laboratories that house four sound-proof rooms.

The master's programs in speech pathology and audiology are accredited by the American Board of Examiners in Speech Pathology and Audiology of the American Speech Language-Hearing Association. Information about major programs and requirements can be obtained from the school office in Lindley Hall.

Majors are assigned advisors and are expected to see their advisors during each preregistration period. All undergraduate students desiring to major in hearing and speech should see the undergraduate coordinator to establish a file and obtain an advisor. Hearing and speech majors who desire education certification should apply during the third quarter of the freshman year to the College of Education for admission to teacher education. (See College of Education section of this catalog.)

Program Standards

Students majoring in hearing and speech sciences progress in the program provided they:

- 1 Maintain an overall g.p.a. of 2.0 (C) or better in all hours attempted at Ohio University.
- 2 Earn at least a C (2.0) or better in each course listed under Major Requirements and Related Requirements. Students seeking education certification must also earn at least a C (2.0) or better in each course listed under Additional Requirements for Teacher Certification.

Note: students must successfully earn a C (2.0) or better in each required hearing and speech course. Students not achieving at this level may retake hearing and speech courses once. Other schools and departments may also limit the number of times a student may retake a course.

Students who do not earn at least a C (2.0) or better in their required courses will be placed on school probation. If, after their first enrollment in a course, students have not earned a C (2.0) or better, they will receive a letter from the undergraduate coordinator informing them that they must obtain a satisfactory grade in that course prior to graduation. Students on probation should discuss the matter with their academic advisors, undergraduate coordinator, or school director.

Students who do not maintain an overall g.p.a. of 2.0 (C) or better in all hours attempted at Ohio University will be placed on probation following the Probation and Drop Regulations found under the Academic Policies and Procedures section of this catalog.

Hearing and Speech Sciences

(Major code #BS5103)

Major Requirements

HSS 108	Intro to Speech Disorders	4
HSS 240	Professional Orientation	3
HSS 300	Comm. Disorders of the Elderly	3
or LING 350 or PSY 374	Intro to General Linguistics	5
	Psychology of Adulthood and Aging	4
HSS 309	Phonetics	4
HSS 310	Language Development	5
HSS 313	Anatomy and Neurology	4
HSS 341*	Speech and Language Practicum	2
HSS 350	Speech Science	4
HSS 351	Hearing Science	4
HSS 379	Basic Manual Communication	4
HSS 418	Articulation Disorders	5
HSS 419	Organic and Structural Disorders	5
HSS 422	Diagnostics	3
HSS 442	Senior Methods/Practicum	3
HSS 444	Disorders of Language	5
HSS 470	Basic Audiology	5
HSS 471	Aural Rehabilitation	5

*Must have passed school's speech proficiency test, administered in HSS 240, prior to enrolling in this course

Required Related Courses

Biological or Physical Science Requirement

Select any 100-level BIOL, BIOS, or PSC course

Computer Literacy Requirement

CS 120 or HS 309	Computer Literacy Microcomputer Applications	3 4
or MIS 100	Intro to Microcomputers	3
EDCI 275	Learning Processes in the Classroom	5
or PSY 275	Educational Psychology	4
EDEL 200 or HCCF 160 or PSY 273	Studies of Children Intro to Child Development Child and Adolescent Psychology	4 4 4
EDM 201	Use of Library Resources	3
EDSP 271	Intro to Ed. of Exceptional Children and Youth	4
or PSY 376	Psychological Disorders of Childhood	4
HLTH 227 or HLTH 228	First Aid CPR	3 1
INCO 103	Fund. of Public Speaking	4

Language and Cultural Relationships Requirement

ANTH 101	Intro to Cultural Anthropology	5
or LING 275	Intro to Language and Culture	4
PSY 101	General Psychology	5
PSY 121	Elementary Statistics	5

Additional Requirements for Teacher Certification

EDCE 410	Human Relations	3
EDCI 401	Advanced Field Experience-Multicultural	2
EDEL 200L	Studies of Children Lab	1
EDEL 311, 311L	Teaching of Reading in Elem. School and Lab	5
EDSP 270	Classroom Mgt. of Children w/Behavior Problems	4
EDSP 474	Intro to Specific Learning Disabilities	4

School of Human and Consumer Sciences

Judith Matthews, Director

The School of Human and Consumer Sciences, accredited by the American Home Economics Association, offers programs in child and family studies, fashion and retail merchandising, food and nutrition, and interior design. There are eight professional curricula leading to the Bachelor of Science in Human and Consumer Sciences degree. In addition, University College and the school offer a two-year curriculum in child development leading to the A.A. degree. Graduate work leading to the M.S. degree also is offered (see *Graduate Catalog*).

The school provides for a variety of activities and experiences. A Child Development Center is maintained on campus. Also, there is a Nutrition Treatment Program.

Child Development Center. The Ohio University Child Development Center provides clinical opportunities for Ohio University students from the schools of Human and Consumer Sciences, Hearing and Speech Sciences, and Recreation and Sport Sciences; the Department of Psychology; and the College of Education, as well as from other related disciplines throughout the University.

The philosophy of the Child Development Center is based on the belief that learning results from the dynamic interaction between children's emerging cognitive and affective systems and their environment. The primary commitment of the Child Development Center is to help children realize their fullest potential in their emotional, social, cognitive, and physical development.

A second responsibility of the Child Development Center is to play an active, coordinated role in preparing preschool and early childhood educators. In addition to serving as a training and observation site for Ohio University students, the center is committed to research that furthers knowledge of the growth and development of children, of family relations, and of educational curricula.

Finally, the center acts as an extension of and support to families in the Athens community, offering both developmental child care and professional knowledge of children's growth, development, and learning.

Nutrition Treatment Program. This program has four main objectives: (1) to provide learning opportunities for senior and master's-level dietetic majors; (2) to offer a health care service to community residents; (3) to provide outreach educational efforts to improve the nutrition awareness of the community; and (4) to foster research designed to promote client understanding and compliance, and maximize students' decision-making and problem-solving skills.

The American Dietetic Association-approved program in didactic dietetic education is charged with providing students with practice-related learning experience. Through working with clients, students gain experience in nutrition assessment, developing a plan of care to meet client needs, implementing and evaluating that plan, and documenting progress in the medical record. Nutrition counseling allows the dietetic major to synthesize and apply previously acquired knowledge in a practical ambulatory care setting, under the guidance of a registered and licensed dietitian.

The Nutrition Treatment Program provides a service to area residents who show some degree of cardiovascular disease risk. The goal is to help the at-risk individual prevent or attenuate any cardiovascular incident through adoption of eating behaviors appropriate to the client's individual health needs and lifestyle.

The Nutrition Treatment Program provides the community with educational programming on issues of current nutritional concern through newsletters, oral presentations to campus and community groups, panel discussions, and radio and television features. The goal is to increase public awareness, knowledge, and adoption of recommended nutritional practices.

The Nutrition Treatment Program fosters research designed to better serve clients and encourages research that helps future dietetic professionals develop conceptual and decision-making skills.

Degree Requirements for All Majors

Candidates for the Bachelor of Science in Human and Consumer Sciences degree must fulfill the University General Education Requirements and must complete a minimum of 192 hours (see General Education Requirements in the Graduation Requirements section of this catalog). Only three hours of physical education (HSC, HSM, HSW) and eight hours of developmental coursework will be counted toward the 192-hour requirement. A g.p.a. of 2.0 (C) is required on all hours attempted, but includes only final hours and grade points on retaken courses. Some programs have additional criteria that must be met. In addition, students may be required to have a g.p.a. higher than 2.0 (C) to obtain certain field experiences/internships or to be admitted to graduate school.

Note: most undergraduate courses offered through the School of Human and Consumer Sciences can be retaken up to two times (i.e., one initial registration and two retakes). Variable credit courses usually cannot be retaken (i.e., possibility of initial grade being removed), but can be repeated for credit to count toward one's degree.

Child and Family Studies

Program Standards

To remain active in any program option listed for Child and Family Studies, a student must meet the following criteria:

- 1 Maintain an overall g.p.a. of 2.0 (C) or better in all hours attempted at Ohio University.
- 2 Maintain a g.p.a. of 2.0 (C) or better in all courses listed under Basic and Major Requirements in the student's selected program option.
- 3 No grade below a 2.0 (C) is acceptable toward completion of the courses identified by an asterisk (*) in the student's program option.

Note: students pursuing teacher certification (early childhood education and early childhood/primary education) must meet the criteria for selection, admission, and retention to teacher education as established by the College of Education (see section in the College of Education for further information).

Early Childhood Education

(Major code #B56350)

This program prepares students for teaching in nursery schools, child-care centers, Head Start programs, prekindergarten programs in public schools, and preschool programs for disabled children. The program meets the requirements for prekindergarten teacher certification in Ohio.

Required Teacher Certification General Education Courses

The current state of Ohio requirements for teacher certification state that a person applying for a teaching certificate must complete 45 quarter hours of general education courses well distributed in the areas of science and mathematics; social sciences; English and/or foreign language; and comparative arts and/or philosophy.

Students also must complete Ohio University's General Education Requirements (see General Education Requirements in the Graduation Requirements section of this catalog). Students are encouraged to work closely with their faculty advisor to make certain that both sets of requirements are met.

The breakdown of these teacher certification general education course requirements is:

Science and Mathematics

Each student is required to complete at least one course in science and one course in mathematics (any Tier I quantitative course). Appropriate science courses are astronomy, biological sciences, chemistry, physical science, geological sciences, and plant biology.

Comparative Arts and/or Philosophy

Each student is required to complete at least two courses in this area. The two courses need not be in the same field. Possibilities include any course in philosophy; comparative arts; HUM 107, 108, 109, 307, 308, or 309; art history; art (except 360, 461, and 462); music (except music education courses, music therapy courses, and the one- and two-hour participation courses); and theater history courses. MUS 160, Music Fundamentals, or MUS 262, Music in Early Childhood, is required.

Social Sciences

Each student is required to complete at least two courses in social sciences. The two courses need not be in the same field; PSY 101, which is required, is included as one of the social sciences courses.

English and/or Foreign Language

Each student is required to complete at least two courses in English and/or foreign language. The two courses need not be taken in the same field. Freshmen and junior English composition courses taken to satisfy the University General Education Tier I requirements may be used toward completion of these hours.

In addition, students must complete INCO 103 to be admitted to Professional Education within the College of Education.

Thirty-Hour Concentration

A thirty-hour concentration is one of the following areas is required: humanities, mathematics, natural sciences, or social sciences. An area of concentration may contain 10 quarter hours that are presently used to meet the General Education Requirements in one of these areas. An area of concentration must contain at least 10 quarter hours at the 300 level or above. Courses for an area of concentration must be selected with approval of the student's advisor.

Major Requirements

ART 360	Art for Elementary Education	6
HCCF 160*	Intro to Child Development	4
HCCF 299*	Soph. Practicum-Professional Assessment	5
HCCF 361	Preschool Guidance	4
HCCF 363	Creative Experiences w/ Preschool Children	4
HCCF 364	Premath and Science Exp. w/ Young Children	4
HCCF 365	Infant Education	4
HCCF 371*	Family Development	3
HCCF 399*	Junior Practicum-Professional Development	5

(Select 2 of the HCCF 462 courses listed)

HCCF 462A	Pluralistic Life Styles	3
HCCF 462B	Parenthood	3
HCCF 462C	Middle Childhood	3
HCCF 463	Preschool Administration	5
HCCF 465	Parent Education	4
HCCF 467	Theories of Child Development	4
HCFN 12B	Intro to Nutrition	4
HCGE 390	Family Consumer Economics	3
HCID 180	Intro to Residential Design	3
HLTH 227	First Aid	3
HPES 4B5	Perceptual Motor Devel. in Children	3
HSS 310	Language Development	5
or LING 270	The Nature of Language	5
or PSY 307	Psycholinguistics	4
PSY 332	Abnormal Psychology	4
PSY 304	Cognitive Processes	4
or PSY 376	Psychological Disorders of Childhood	4

Required Professional Education Courses

EDCI 275	Learning Processes in the Classroom	5
or PSY 275	Educational Psychology	4
EDCE 410	Human Relations	3
EDEL 306	Kindergarten-Theory and Methods	6
EDM 4B0	Intro to Educational Media	4
EDSP 270	Classroom Management w/Problem Children I	3
EDSP 271	Intro to Ed. of Exceptional Children and Youth	3
EDSP 272	Intro to Ed. of MR Children and Youth	3
HCCF 400*	Senior Seminar	3
HCCF 464*	Early Childhood Practicum	6-12

Early Childhood Validation

The validation can be attached to an already existing kindergarten-primary, elementary, home economics, or special education certificate. The validation will provide an opportunity for individuals working in a related field to develop skills necessary for working with children birth to six years of age.

HCCF 160	Intro to Child Development	4
HCCF 361	Preschool Guidance	4
HCCF 363	Creative Exp. w/Preschool Children	4
HCCF 364	Premath and Science Exp. w/Preschool Children	4
HCCF 371	Family Development	3
HCCF 464	Early Childhood Practicum	6
HCCF 463	Preschool Administration	5
HCCF 465	Parent Education	4

(Choose two from the following):

HCCF 462A	Pluralistic Life Styles	3
HCCF 462B	Parenthood	3
HCCF 462C	Middle Childhood	3

*Denotes required course.

Early Childhood/Primary Education**(Major code #BS6353)**

This program prepares the student for teaching in nursery schools, child-care centers, Head Start programs, prekindergarten, kindergarten, and primary grades (Grades 1-3) in public schools. The program meets the requirements for prekindergarten and kindergarten-primary teacher certification in Ohio.

Required General Education Courses

The courses listed fulfill the general education requirements for teacher certification. Students are encouraged to work closely with their faculty advisor to make certain that both University General Education and teacher certification requirements will be met.

Science and Mathematics

BIOL 101	Principles of Biology	5
or BIOS 103	Human Biology	5
MATH 120, 121, 122	Elementary Topics in Math	10

(NOTE: these math courses are recommended; however, any math courses numbered above 120 (except MATH 151) and totaling 10 hours would be acceptable.)

Comparative Arts and/or Philosophy

MUS 160	Music Fundamentals	3
MUS 161	Music for Classroom Teachers	3
or MUS 262	Music for Early Childhood	3

Social Sciences

GEOG 121	Elements of Human Geography	4
PSY 101	General Psychology	5
SOC 101	Intro to Sociology	5

English and/or Foreign Language

Each student is required to complete at least two courses in English and/or foreign language. The two courses need not be taken in the same field. Freshmen and junior English composition courses taken to satisfy the University General Education Tier I requirements may be used toward completion of these hours.

In addition, students must complete INCO 103 to be admitted to Professional Education within the College of Education.

Thirty-Hour Concentration

A thirty-hour concentration in one of the following areas is required: humanities, mathematics, natural sciences, or social sciences. An area of concentration may contain 10 quarter hours that are presently used to meet the General Education Requirements in one of these areas. An area of concentration must contain at least 10 quarter hours at the 300 level or above. Courses for an area of concentration must be selected with approval of the student's advisor.

Major Requirements

ART 360	Art for Elementary Teachers	6
ECON 103 or ECED 346	Principles of Microeconomics Economics in the Curriculum	4 4-5
EDM 332	Microcomputer App. in Education	4
HCCF 360	Human Sexuality	4
HCCF 361	Principles of Preschool Guidance	4
HCCF 363	Creative Exp. w/Preschool Children	4
HCCF 364	Premath and Science Exp. w/ Young Children	4
HCCF 371	Family Development	3

(Select 2 from the following)

HCCF 462A	Pluralistic Life Styles	3
HCCF 462B	Parenthood	3
HCCF 462C	Middle Childhood	3
HCCF 463	Preschool Administration	5
HCCF 465	Parent Education	4
HCFN 128	Intro to Nutrition	4
HLTH 202	Health Sciences and Lifestyle Choices	4
or HLTH 227	First Aid	3
HPES 270	Teaching of Physical Education	3
LING 270	Nature of Language	5
SOC 201	Contemporary Social Problems	4
or SOC 223	American Society	4
Physical science course with laboratory component		4-5
U.S. history or political science course		4

Required Professional Education Courses

EDCI 275	Learning Processes in Classroom	5
or PSY 275	Educational Psychology	4
EDCE 410	Human Relations	3
EDCI 401	Advanced Field Experience—Multicultural	2
EDEL 200, 200L or HCCF 160 or PSY 273	Studies of Children and Lab Intro to Child Development Child and Adolescent Psychology	5 4 4
EDEL 306	Kindergarten-Theory and Methods	6
EDEL 310, 310L	Teach Lang. Arts Elem. School and Lab	5
EDEL 311, 311L	Teach Reading Elem. School and Lab	5
EDEL 321, 321L	Children's Literature and Lab	4
EDEL 330, 330L	Teach Math Elem. School (K-3) and Lab	3
EDEL 340, 340L	Teach Science Elem. School and Lab	5
EDEL 350, 350L	Teach Social Studies Elem. School and Lab	4
EDEL 372	Managing Elementary Classrooms	2
EDEL 460	The Child and the Curriculum	4
EDM 480	Intro to Educational Media	4
EDPL 461, 462	Student Teaching	13
EDPL 465	Student Teaching Seminar	3
EDSP 271	Intro to Ed. of Except Children and Youth	4
HCCF 460	Senior Seminar	3
HCCF 464	Early Childhood Practicum	6

Family Studies**(Major code #BS6351)**

This program prepares students for working with clients at various developmental stages, such as children, adolescents, and seniors. Employment opportunities include family services, children's services, adolescent group homes, rehabilitation centers, community programs for the developmentally disabled, senior citizen centers, planned parenthood centers, children's hospitals, mental health agencies, and probation services.

Major Requirements

HCCF 160*	Intro to Child Development	4
HCCF 270	Family Living	3
HCCF 299*	Sophomore Practicum- Professional Assessment	5
HCCF 360	Human Sexuality	4
HCCF 361	Preschool Guidance	4
HCCF 371*	Family Development	3
HCCF 380	Death and Dying	4
HCCF 399*	Junior Practicum- Professional Development	5
HCCF 400	Senior Seminar	3
HCCF 444 or HCCF 471	Adult Education Family Life Education	4 4
HCCF 452	Home Management for Disabled Homemakers	4
HCCF 462A	Pluralistic Life Styles	3
HCCF 462B	Parenthood	3
HCCF 462C	Middle Childhood	3
HCCF 462D	One-Parent Family	3
HCCF 462E	Youth Identity Crisis	3
HCCF 462F	The Aged Family	3
HCCF 499*	Field Experience-Family Studies	12

Required Related Courses

EDCE 410	Human Relations	3
HCFN 128	Intro to Nutrition	4
HCGE 390	Family Consumer Economics	3
HCID 180	Intro to Residential Design	3
HLTH 227	First Aid	3
HS 309	Microcomputer Applications	4
MGT 200 or MGT 300	Intro to Management Management	4 4
PSY 101	General Psychology	5
PSY 121	Elementary Statistics	5
PSY 231	Psychology of Adjustment	4
PSY 233	Psychology of Personality	4
SOC 101	Intro to Sociology	5
SOC 414	Contemporary Social Movements	4
or SOC 416	Society and the Individual	4
SOC 361 or SOC 363	Deviant Behavior Juvenile Delinquency	4 4
SW 101	Intro to Social Welfare and Social Work	3
SW 290	American Social Welfare System	4
SW 390	Social Policy	4
SW 383	Intro to Social Work Practice Methods	4

*Denotes required course

Fashion and Retail Merchandising

(Major code #BS6380)

Program Standards

To remain active in fashion and retail merchandising, a student must meet the following criteria:

- 1 Maintain overall g.p.a. of 2.0 (C) or better in all hours attempted at Ohio University.
- 2 Maintain a g.p.a. of 2.0 (C) or better in all courses listed under Major Requirements.
- 3 No grade below a C is acceptable toward completion of the course(s) identified by an asterisk (*) in the option listing.

A student must succeed in a required program course by the third time he or she enrolls in the course. If the student does not meet this requirement, he or she will be dropped from the program. Success is a passing grade, or a grade of C in those courses where a minimum grade of C is required.

This program prepares students for retail management, marketing, distribution, and product development positions such as buyer, store or corporate manager, visual merchandiser, manufacturer's sales representative, and fashion coordinator.

Major Requirements

HCRM 117	Textiles and Dress and Environ.	3
HCRM 201	Intro to Retailing	4
HCRM 283*	Apparel Production Process	4
HCRM 299*	Sophomore Practicum-Professional Assessment	4
HCRM 315*	Elementary Textiles	4
HCRM 318	Fashion Merchandising-Promotion	4
HCRM 383	Product Eval., Buying, and Negotiating	4
HCRM 399*	Junior Practicum-Professional Development	3
HCRM 400*	Senior Seminar	1
HCRM 407	Textiles and Fashion Industry	4
HCRM 405	A History of Costume	4
HCRM 417*	Retail Merchandising-Management	4
HCRM 418	Textile Testing	4
HCRM 437	Strategic Merchandise Planning	4
HCRM 499*	Field Work-Fashion and Retail Merch.	12

Required Related Courses

ACCT 201	Financial Accounting	4
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Select two courses:

ART 101	Two-Dimensional Design	4
ART 102	Three-Dimensional Design	4
ART 128	Drawing I	4
HCID 181	Color Theory	4
	Business/communication elective	4
	Business electives	

(Select 12 hours at the 300 or 400 level from ACCT, BA, BUSL, ECON, FIN, HRM, MGT, MKT, MIS, OPN, or QBA)

CHEM 121	Principles of Chemistry	4
	Comparative arts (one course)	4
CS 120 or HS 309 or MIS 100	Computer Science Survey	3
	Microcomputer Applications	4
	Intro to Microcomputers	4
ECON 103	Principles of Microeconomics	4
ECON 104	Principles of Macroeconomics	4
ENG 305J or ENG 308J or HCGE 345J	Technical Writing	4
	Advanced Composition	4
	Writing in Human and Consumer Sciences	4
or MGT 325J	Business Communication	4
HCCF 160	Intro to Child Development	4
or HCCF 371	Family Development	3
or HCFN 128	Intro to Nutrition	4
HCGE 390	Family Consumer Economics	3
HCID 180	Intro to Residential Design	3
INCO 103	Fund. of Public Speaking	4
JOUR 250	Advertising Principles	4
MATH 113 or MATH 163A	Algebra	5
	Intro to Calculus	4
MGT 200 or MGT 300	Intro to Management	4
	Management	4
MKT 301	Marketing Principles	4
PSY 101	General Psychology	5
PSY 121	Elementary Statistics	5
SOC 101	Intro to Sociology	5

Minor in Fashion and Retail Merchandising

CS 120 or HS 309 or MIS 100	Computer Science Survey	3
	Microcomputer Applications	4
	Intro to Microcomputers	3
HCRM 201	Intro to Retailing	4
HCRM 299	Sophomore Practicum-Professional Assessment	4
HCRM 318	Fashion Merchandising-Promotion	4
HCRM 407	Textile and Apparel Industries	4
HCRM 417	Retail Merchandising-Management	4
HCRM 437	Strategic Merchandise Planning	4
JOUR 250	Advertising Principles	4

Food and Nutrition

Program Standards

To remain active in any program option listed as Food and Nutrition, a student must meet the following criteria:

1 Maintain overall g.p.a. of 2.0 (C) or better in all hours attempted at Ohio University.

2 Earn at least a C (2.0) or better in each course listed under Major Requirements and Related Requirements (both dietetics and nutrition with science majors).

or

Earn at least a 2.0 (C) in each course listed under Major Requirements (food service management majors).

Students must successfully earn a C (2.0) in all required HCFN courses by the end of the third enrollment in each course. Other schools and departments may also limit the number of times a student may retake a course. If, after their second enrollment in a HCFN course, students have not earned a C (2.0) or better, they will receive a letter from the food and nutrition coordinator informing them that they must obtain a satisfactory grade at the end of the next enrollment in that course or they will be dropped from the major.

Note: students applying for a post-graduation internship or preprofessional practice program should be aware that internship and preprofessional practice program sites generally require a minimum accumulative g.p.a. of 3.0 (B) or higher. Completing the graduation requirements of Ohio University and meeting requirements of the Food and Nutrition's American Dietetic Association (ADA) Approved Program does not guarantee acceptance into post-baccalaureate programs for professional experience. The student must apply to and be granted acceptance into such programs to pursue the experiential component toward becoming a Registered Dietitian (R.D.).

Dietetics

(Major code #BS6360)

This didactic program in dietetics meets American Dietetic Association academic requirements, qualifying students for internships or Approved Pre-Professional Practice Programs (AP4) in dietetics.

Major Requirements

HCFN 120*	Meal Management	3
HCFN 128	Intro to Nutrition	4
HCFN 222	Food Science and Principles	4
HCFN 299	Sophomore Practicum- Professional Awareness	1
HCFN 334	Quantity Food Production	4
HCFN 335	Food Service Purchasing	4
HCFN 382	Intermediate Nutrition	4
HCFN 399A*	Field Experience	5
HCFN 400	Senior Seminar	1
HCFN 422	Experimental Foods	4
HCFN 426	World View of Nutrition	3
HCFN 428	Advanced Nutrition	4
HCFN 429	Community Nutrition	3
HCFN 430	Therapeutic Nutrition	4
HCFN 437	Food Service Systems I	5
HCFN 438	Food Service Systems II	4
HCFN 498A	Nutrition Counseling	2
HCFN 499A	Nutrition Counseling Practicum	3

*Must obtain a laboratory coat to be worn in foods labs (approx. \$30)

†Must secure liability insurance (approx. \$38)

Required Related Courses

ACCT 201	Financial Accounting	4
ANTH 101	Intro to Cultural Anthropology	5
BIOS 170, 171	Intro to Zoology	10
BIOS 300	Anatomy and Histology	6
BIOS 345	Human Physiology	4
BIOS 463	Cell Chemistry	4
BIOS 464	Physiology of Chemistry Lab	3
CHEM 121, 122, 123 or CHEM 151, 152, 153	Principles of Chemistry Fund. of Chemistry	12 15
CHEM 301, 302	Organic Chemistry	6
CS 120 or HS 309	Computer Science Survey Microcomputer Applications	3 4
EDCI 275	Learning Processes in Classroom	5
or PSY 275	Educational Psychology	4
ECON 103	Principles of Microeconomics	4
ECON 104	Principles of Macroeconomics	4
HCCF 160 or HCCF 371	Intro to Child Development Family Development	4 3
HCCF 444	Adult Ed. in Human and Consumer Sci.	4
or HCGE 390	Family Consumer Economics	3
HCID 180	Intro to Residential Design	4
HRM 420	Human Resource Management	4
INCO 101	Fund. of Human	

or INCO 103	Communication	4
JOUR 250	Fund. of Public Speaking	4
MATH 113	Advertising Principles	4
or MATH 163A	Algebra	5
MGT 200	Intro to Calculus	4
or MGT 300	Intro to Management	4
MICR 211, 212	Management	4
or MICR 411	Environ. Microbiology and Lab	6
PSY 101	General Microbiology	6
PSY 121	General Psychology	5
	Elementary Statistics	5

Food Service Management

(Major code #BS6361)

This program with a built-in business minor prepares students for careers in management and supervision in hotels, motels, restaurants, public schools, residence halls, and industry. It is strongly recommended that students majoring in food service have a part-time job in a hospitality establishment to be more marketable upon graduation.

Major Requirements

HCFN 110	Intro to Hospitality	3
HCFN 120*	Meal Management	3
HCFN 128	Intro to Nutrition	4
HCFN 222	Food Science and Principles	4
HCFN 330	Food Sanitation and Safety	2
HCFN 334	Quantity Food Production	4
HCFN 335	Food Service Purchasing	4
HCFN 399B†	Field Experience	5
HCFN 400	Senior Seminar	1
HCFN 437	Food Service Systems I	5
HCFN 438	Food Service Systems II	4
HCFN 439	International Cuisine	4
HCFN 440	Beverage Management	4
HCFN 498B	Food Service Professional Development	5
HCFN 499B	Food Service Practicum	4

*Must obtain a laboratory coat to be worn in foods labs (approx. \$30)

†Must secure liability insurance (approx. \$38)

Required Related Courses

ACCT 201	Financial Accounting	4
ACCT 202	Managerial Accounting	4
BUSL 255	Law and Society	4
CHEM 121	Principles of Chemistry	4
CS 120	Computer Science Survey	3
or HS 309	Microcomputer Applications	4
ECON 103	Principles of Microeconomics	4
ECON 104	Principles of Macroeconomics	4
ECON 381	Intro to Economic Statistics	4
or PSY 121	Elementary Statistics	5
EDCI 275	Learning Processes in Classroom	5
or PSY 275	Educational Psychology	4
HCCF 160	Intro to Child Development	4

OF HCCF 371	Family Development	3
HCCF 444	Adult Ed. in Human and Consumer Sciences	4
or HCGE 390	Family Consumer Economics	3
HCID 180	Intro to Residential Design	3
HRM 420	Human Resource Management	4
HRM 425	Labor Relations	4
INCO 101	Fund. of Human Communication	4
or INCO103	Fund. of Public Speaking	4
JOUR 250	Advertising Principles	4
MGT 300	Management	4
MIS 300	Business Information Systems	4
MKT 301	Marketing Principles	4
PSY 101	General Psychology	5
SOC 101	Intro to Sociology	5

Nutrition with Science (Biological Sciences)

(Major code #BS6363)

This didactic program in dietetics meets American Dietetic Association academic requirements qualifying students for internships or Approved Pre-Professional Practice Programs (AP4). It also provides a basis for those students desiring graduate study and research in nutrition and/or biological sciences. Certain other preprofessional undergraduates, such as those in premedicine, with a strong interest in nutrition, will find the program satisfies requirements for admittance to professional schools. A student can major either in food and nutrition in the School of Human and Consumer Sciences in the College of Health and Human Services, or a similar program in the Department of Biological Sciences in the College of Arts and Sciences.

Note: the program offered through biological sciences does not meet ADA requirements.

Major Requirements

HCFN 120*	Meal Management	3
HCFN 128	Intro to Nutrition	4
HCFN 222	Food Science and Principles	4
HCFN 299	Sophomore Practicum-Professional Awareness	1
HCFN 334	Quantity Food Production	4
HCFN 335	Food Service Purchasing	4
HCFN 382	Intermediate Nutrition	4
HCFN 399A†	Field Experience	5
HCFN 400	Senior Seminar	1
HCFN 422	Experimental Foods	4
HCFN 426	World View of Nutrition	3
HCFN 428	Advanced Nutrition	4
HCFN 429	Community Nutrition	3
HCFN 430	Therapeutic Nutrition	4
HCFN 431	Studies of Science of Nutrition	3
HCFN 437	Food Service Systems I	5
HCFN 438	Food Service Systems II	4
HCFN 498A	Nutrition Counseling	2
HCFN 499A	Nutrition Counseling Pract.	3

*Must obtain a laboratory coat to be worn in foods labs (approx. \$30)

†Must secure liability insurance (approx. \$38)

Required Related Courses

ACCT 201	Financial Accounting	4
ANTH 101	Intro to Cultural Anthropology	5
BIOS 170, 171, 172, 173	Intro to Zoology	14
BIOS 300 or BIOS 303	Anatomy and Histology Comparative Vertebrate Anatomy	6 5
BIOS 325	General Genetics	5
BIOS 342, 343 or BIOS 345	Principles of Physiology Human Physiology	6 4
BIOS 463	Cell Chemistry	4
BIOS 464	Physiological Chemistry Lab	3
CHEM 151, 152, 153	Fund. of Chemistry	15
CHEM 301, 302	Organic Chemistry	6
ECON 103	Principles of Microeconomics	4
ECON 104	Principles of Macroeconomics	4
HCCF 160 or HCCF 371	Intro to Child Development Family Development	4 3
HCCF 444	Adult Ed. in Human and Consumer Sciences	4
HCID 180	Intro to Residential Design	3
HRM 420	Human Resource Management	4
INCO 101 or INCO 103	Fund. of Human Communication Fund. of Public Speaking	4 4
JOUR 250	Advertising Principles	4
MATH 163A, 163B	Intro to Calculus	7
MGT 200 or MGT 300	Intro to Management Management	4 4
MICR 211, 212 or MICR 411	Environ. Microbiology and Lab General Microbiology	6 6
PHYS 201, 202	Intro to Physics	10
PSY 101	General Psychology	5
PSY 121	Elementary Statistics	5
PSY 275	Educational Psychology	4

Minor in Basic and Applied Nutrition

This minor gives students the opportunity to strengthen their knowledge of nutrition principles and applications. Students completing this minor are prepared to provide basic information and guidance concerning nutrition and diet, and to help others identify reliable nutrition resources in the community. A minimum of 29 to 31 hours are required for the minor plus any necessary prerequisites.

Supporting Sciences

(These courses are prerequisites to upper-level HCFN courses. Twelve hours can be applied to the minor.)

BIOS 345	Human Physiology	4
BIOS 463	Cell Chemistry	4
CHEM 121, 122, 123 or CHEM 151, 152, 153	Principles of Chemistry Fund. of Chemistry	12 15
CHEM 301, 302	Organic Chemistry	6

Nutrition Courses

HCFN 128	Intro to Nutrition	4
HCFN 382	Intermediate Nutrition	4
HCFN 426	World View of Nutrition	3
HCFN 428	Advanced Nutrition	4
HCFN 429	Community Nutrition	3
HCFN 430	Therapeutic Nutrition	4

Interior Design

(Major code #BS6383)

Program Standards

To remain active as an interior design major, a student must meet the following criteria:

- 1 Submit and pass a portfolio review that includes all work from ART 100, ART 102, ART 128, HCID 180, HCID 180A, HCID 181, HCID 299, and IT 104.
- 2 Earn at least a C (2.0) in each studio course marked with an asterisk (*).
- 3 Enroll in an advanced studio course during senior year.

Major Requirements

HCID 180	Intro to Residential Design	3
HCID 180A	Intro to Residential Design Studio	1
HCID 181	Color Theory	4
HCID 279	Rendering and Presentation Tech.	4
HCID 280*	Interior Design Studio I	4
HCID 281*	Interior Design Studio II	4
HCID 285	Contemporary Interior Design	3
HCID 288	Lighting Fundamentals	3
HCID 299	Professional Practices	2
HCID 340	Interior Design Computer- Aided Design	4
HCID 350	Principles, Materials, and Methods of Interior Construction I	3
HCID 350A*	Interior Construction Studio	2
HCID 351	Principles, Materials, and Methods of Interior Con. II	3
HCID 352	Business Procedures and Contract Documents	3
HCID 384	Interior Design Programming	3
HCID 400	Senior Seminar- Professional Evaluation	1
HCID 480	History of Furniture and Interiors	3
HCID 481	Contemporary Design in Furnishings	3
HCID 482	The Decorative Arts	3
HCID 483*	Advanced Interior Design Studio I	4
HCID 484*	Advanced Interior Design Studio II	4
HCID 485*	Advanced Interior Design Studio III	4
HCID 499	Field Work-Interior Design	5-12

Required Related Courses**Art history electives (select 3 from):**

AH 350	Principles of Architecture	4
AH 351	Ancient Architecture	4
AH 352	Medieval Architecture	4
AH 353	Renaissance and Baroque Architecture	4
ART 100	Seeing and Knowing Visual Arts	3
ART 102	Three-Dimensional Design	4
ART 128	Drawing I	4

Business electives (select 12 hours from):

ACCT 201	Financial Accounting	4
BUSL 255	Law and Society	4
CS 120 or HS 309	Computer Science Survey Microcomputer Applications	3 4
MGT 200	Intro to Management	4
MGT 325J	Business Communications	4
MKT 301	Marketing Principles	4
MKT 444	Consumer Behavior	4
ECON 103	Principles of Microcomputers	4
HCCF 160 or HCCF 371	Child Development Family Development	4 3
HCFN 128	Intro to Nutrition	4
HCCF 452	Home Management for Disabled Homemaker	4
HCRM 315	Elementary Textiles	4
INCO 103	Fund. of Public Speaking	4
IT 104	Architectural Drawing I	5
JOUR 250	Advertising Principles	4

*Denotes required course

School of Nursing

Kathleen Rose-Grippa, Director

Baccalaureate Nursing Program

(Major code #BS1203)

The School of Nursing offers a RN to B.S.N. program, designed for licensed RNs who are graduates of state-approved associate's degree or diploma schools of nursing. The purpose is to prepare generalists for the professional practice of nursing and to provide a foundation for graduate study. The program is accredited by the National League for Nursing.

The major in nursing includes upper-division coursework in nursing, University General Education Requirements, and upper-division courses outside of nursing. It is possible to complete a minor in another discipline while completing the major in nursing. Courses are offered on all regional campuses, as well as on the Athens campus, increasing availability for professional development and/or career mobility for registered nurses.

Admission to and progression through the program includes the following steps: (1) Admission to Ohio University—after initial review and individual appraisal of student records of previous coursework, admitted students are informed of the program prerequisites they must meet and are oriented to the expectations and structure of the program; (2) students may then enroll in courses to complete the program prerequisites; and (3) when these prerequisites have been met, students are admitted into the nursing major and complete the required nursing courses in sequence.

Many of the nursing courses have a clinical component. The clinical experiences occur in a broad range of traditional and nontraditional health care and health maintenance settings. The communities surrounding the classroom locations are used whenever possible. These clinical experiences have been carefully selected to optimize learning. Students are responsible for transportation to the clinical experiences.

A grade of 2.0 (C) or better must be earned in each course offered by the School of Nursing (NBSP series). If a grade of C is not earned, the student must retake the course before progressing to the next course in the sequence.

Note: most undergraduate courses offered through the School of Nursing can be retaken up to two times (i.e., initial registration and two retakes). Variable credit courses usually cannot be retaken (i.e., possibility of initial grade being removed), but can be repeated for credit to count toward one's degree.

Upon completion of the program prerequisites (90 quarter hours consisting of lower-division nursing and general education courses) and 102 quarter hours of upper-division nursing, general education, and support courses, students will receive the Bachelor of Science in Nursing degree.

Program Requirements

- 1 Graduate of state-approved associate's degree or diploma program in nursing.
- 2 Admission to Ohio University.
- 3 Evaluation of official transcripts from lower-division nursing program and all other post-secondary education. The evaluation must be completed by the University and the School of Nursing.

4 Complete program prerequisites, including attendance at the orientation course, NBSP 295, before beginning the nursing major sequence of courses.

5 Prior to enrolling in clinical NBSP courses, one must have documentation of:

- a current license to practice as a registered nurse (RN) in Ohio.

b individual malpractice insurance.

c current immunizations (and/or waiver of the same) including hepatitis B.

d results of TB skin test completed within the past year.

e current CPR certification.

General Education/Support

Students may select either Option A or Option B to meet the upper-division course requirements. With either plan, consultation with the major advisor is necessary.

Students who do not possess a bachelor's degree prior to entering the RN to B.S.N. program must also complete Ohio University General Education Requirements:

Junior-level advanced composition (select one course with "J" designation)

Tier II fine arts and humanities course (4 qtr hrs) or Third World cultures course (4 qtr hrs)

Tier III synthesis course (see Tier III under Courses of Instruction)

Option A

CS 120	Computer Science Survey	3
or HS 309	Microcomputer Applications	4
or MIS 100	Intro to Microcomputers	3

Select at least 34 qtr hrs of coursework as indicated in the following areas (300-400 level):

Behavioral Sciences

Psychology (select one)

Human Relations (select one)

Biological Sciences (select one)

Humanities (select one)

Electives

Students may select from 300- and 400-level courses in any area and may use 1-5 credit hours of OU workshop courses to fulfill upper-division credit hour requirements.

Option B

Students may choose to complete a minor course of study, a second major, or one of the available certificate programs, e.g., School Nurse or Gerontology. Plus students must complete one of the following courses:

CS 120	Computer Science Survey	3
or HS 309	Microcomputer Applications	4
or MIS 100	Intro to Microcomputers	3

School Nurse Certificate

Students who are licensed as RNs in the state of Ohio are eligible to apply for admission to the School Nurse Certificate Program. Students choose one of three plans:

1 Those RNs with a B.S.N. degree take only those additional courses required to meet the state's certification requirements.

2 Those RNs who wish to complete the B.S.N. and the School Nurse Certificate simultaneously follow the B.S.N. program of study and use the required School Nurse Certificate courses as part of that degree, or

3 Those RNs who seek to complete a B.S. degree not in nursing will need to consult with the advisor in their chosen major and the School Nurse Certificate advisor to develop a program of study.

Individuals who do not have a B.S. degree in some area will need to earn one. This will involve meeting Ohio University's General Education Requirements and graduation requirements in addition to the major requirements and the School Nurse Certification requirements. Each applicant's file will be individually reviewed, and credit transferred from other accredited institutions will be used to meet requirements wherever possible. Graduates of diploma programs in nursing may earn 36 quarter hours of credit for lower-division nursing upon completion of specified ACT-PEP exams.

Program Prerequisites

I Lower-division Nursing (minimum of 36 qtr hours)*

A Transfer credit (36 qtr hrs) is awarded to applicants with an associate's degree in nursing from a regionally accredited college or university.

or

B Credit (36 qtr hrs) is awarded to applicants with a diploma in nursing upon completion of specified ACT Proficiency Examinations or other evaluative mechanisms.

II Content Prerequisites and University General Education Requirements (54 qtr hrs)

A Tier I Requirement

1 Freshman English composition (ENG 151, 152, or 153)[†]

2 Quantitative Skills (PSY 121)[†]

B Tier II Requirement

1 Applied Science and Technology

Nutrition (HCFN 128)[†]

Microbiology (MICR 211 and 212 or 201)[†]

2 Natural Science and Mathematics

Anatomy and Physiology[†]

Chemistry (CHEM 121 or 151)[†]

3 Social Sciences Human Growth and Development (EDEL 200 or HCCF 160 or PSY 273)[†]

Sociology (SOC 101)[†]

Psychology (PSY 101)[†]

4 NBSP 295, Intro to Baccalaureate Nursing Education*

III Electives (8-10 qtr hrs)

*Must be completed prior to enrollment in NBSP 300

[†]All but two must be completed prior to enrollment in NBSP 300.

Required Nursing Courses

NBSP 300	Transitions in Nursing	5
NBSP 310	Health Appraisal I	5
NBSP 320	Health Appraisal II	5
NBSP 330	Family Nursing	5
NBSP 340	Community Health Nursing	5
NBSP 350	Management Issues in Nursing	5
NBSP 405	Research: Critique and Methodology	5
NBSP 415	Restorative Nursing	5
NBSP 425	Clinical Applications in Nursing	5
NBSP 435	Ethical and Legal Issues	5
NBSP 445	Strategic Planning in Nursing Care	5
NBSP 455	Excellence in Nursing	5

Students must be admitted to professional education in order to earn this certificate (see College of Education for requirements). Contact the School Nurse Certificate advisor in the School of Nursing for assistance.

RNs who hold a B.S.N. from another university will likely have met the nursing course requirements (NBSP) listed below through transfer of credit. Course descriptions from previous schools may be required to determine equivalent coursework.

Required Courses

EDCI 275	Learning Processes in the Classroom	5
	or PSY 275 Educational Psychology	4
EDCI 480	Teacher, School, and Society	4
or EDEL 460	The Child and the Curriculum	4
EDPL 461, 463	Student Teaching	13
EDPL 465	Student Teaching Seminar	3
HCCF 360	Human Sexuality	4
HLTH 204	Drugs, Alcohol, and Tobacco	4
HLTH 379	Teaching of Health	5
HLTH 495	School Health Problems	5
NBSP 300	Transitions in Nursing	5
NBSP 310	Health Appraisal I	5
NBSP 320	Health Appraisal II	5
NBSP 330	Family Nursing	5
NBSP 340	Community Health Nursing	5
PSY 233	Psychology of Personality	4
or PSY 332	Abnormal Psychology	4

Individuals completing a B.S. degree not in nursing must complete two courses in addition to those listed above:

EDSP 271	Intro to Ed. of Exceptional Children and Youth	4
HPES 390	Safety Education	4

School of Physical Therapy

Cynthia Norkin, *Director*

The School of Physical Therapy offers an American Physical Therapy Association (APTA) accredited baccalaureate program in physical therapy. The program begins in June and extends over a two-calendar-year period. Students may apply for admission to the program after completing the program's prerequisites either at Ohio University or at another institution. Recommended routes for completing prerequisite coursework are through the College of Arts and Sciences' Biological Sciences Prephysical Therapy Program or Psychology Prephysical Therapy Program, while the College of Health and Human Services' Recreation and Sport Sciences-Exercise Physiology program offers a slightly less direct route.

The school's curriculum includes major components related to basic and clinical sciences, physical therapy arts and sciences, health services administration, research, and education, with the intent of preparing graduates who are competent physical therapy practitioners and health care professionals. The curriculum reflects a systems-oriented, problem-solving design and includes didactic, laboratory, and clinical components.

Students enrolled in the School of Physical Therapy must earn a grade of C- or better in each course offered in the professional program. If a grade of C- is not attained, the course must be retaken before the student can progress to the next course in the sequence. Courses may be retaken only once in an attempt to achieve an acceptable grade.

The clinical component of the curriculum is integrated with the didactic and laboratory components throughout the program of study. In five of the academic quarters, physical therapy students receive part-time clinical education in local clinics (community hospitals, home health agencies, extended care facilities, developmental disabilities centers, and private practices) supervised by faculty and staff from Ohio University Therapy Associates, the school's faculty practice, and area clinicians.

In addition to the part-time clinical affiliations, three full-time clinical practica are required in clinical facilities located outside of the Athens area. The School of Physical Therapy has agreements with a large variety of medical centers, general acute hospitals, rehabilitation centers, and specialty clinics in Ohio, as well as in Arizona, California, Florida, Indiana, Illinois, Kentucky, Louisiana, Michigan, Mississippi, New York, North Carolina, Pennsylvania, Tennessee, Virginia, and West Virginia.

Students are responsible for their own transportation to and from clinical sites and for housing and other living expenses during all of their affiliations. Students also are required: (1) to obtain CPR certification prior to participation in full-time practice; (2) to have a physical examination, including evidence of results of a recent TB skin test; and (3) to provide documentation of current immunization for hepatitis B (or waiver form). Because students may be exposed to infectious diseases during their affiliations, some sites may require proof of immunization for other selected diseases. In addition, all students must purchase name tags and malpractice insurance to be eligible for participation in the clinical practice. Membership in the American Physical Therapy Association and attendance at state conferences are encouraged.

Note: students should note that the Ohio University program in physical therapy may be changed to a three-year master's-level program, extending the length of time in the School of Physical Therapy from two to three years. The prerequisite courses will remain the same except the minimum g.p.a. for admission will become 3.0.

Admission Procedures/Eligibility

Ohio University Students

Ohio University students must meet the following requirements to be eligible to apply for June 1995 admission to the School of Physical Therapy:

- 1 Submission of a completed application packet by November 19, 1994. Program Admission Packets are available from the School of Physical Therapy, Convocation Center 199.
- 2 Earned a minimum overall g.p.a. of 2.8 on a 4.0 grading scale.
- 3 Completion of at least half of the life and physical science prerequisite courses by the end of the 1994 fall quarter.
- 4 Completion of at least a majority of the general, math, and behavioral sciences prerequisite courses by the end of the 1994 fall quarter.
- 5 Attained at least junior standing at the time of application.
- 6 Submission of an official Ohio University transcript to the School of Physical Therapy. (Note: if any required coursework has been completed at institutions other than Ohio University, then official transcripts from these institutions also must be submitted.)

Students Transferring from Another Institution

Students enrolled at institutions other than Ohio University must meet the following requirements in order to be eligible to apply for June 1995 admission to the School of Physical Therapy.

- 1 Application to Ohio University as a transfer student. Information about transfer applicants can be found under Admissions at the front of this catalog.
- 2 Submission of a completed application packet to the School of Physical Therapy by November 19, 1994. Program Admission Packets are available from the School of Physical Therapy, Convocation Center 199, Ohio University, Athens OH 45701-2979.
- 3 Earned a minimum overall g.p.a. of 2.8 on a 4.0 grading scale.
- 4 Completion of at least half of the life and physical science prerequisite courses by the end of the 1994 fall quarter or semester.
- 5 Completion of at least a majority of the general, math, and behavioral sciences prerequisite courses by the end of the 1994 fall quarter or semester.
- 6 Attained at least junior standing at the time of application.
- 7 Submission of two official transcripts from each post-secondary institution attended. Transcripts must be forwarded by the institutions directly to the Office of Admissions, Chubb Hall, and to the School of Physical Therapy.
- 8 Submission of course descriptions, in addition to the transcript, to the School of Physical Therapy.

Minimum Prerequisite Course Requirements

General

ENG 151, 152, or 153; ENG 305J or 308J	English Composition	9
PHIL 101 or 120; PHIL 130	Philosophy	8-9

Math

MATH 163A, B	Calculus	7
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Behavioral Sciences

PSY 101; PSY 273; PSY 332	Psychology	13
SOC 101 or ANTH 101	Sociology/Anthropology	5
PSY 121	Statistics	5

Life and Physical Sciences*

BIOS 301 or 302	Anatomy	6
BIOS 170, 171	Biology/Biological Sciences	10
BIOS 352 or 420 or HPES 302	Biomechanics/Kinesiology	4
CHEM 121, 122, 123 or CHEM 151, 152, 153	Chemistry	12-15
BIOS 445, 446 or HPES 415, 416	Exercise Physiology	7
BIOS 402 or PSY 312)	Neuroscience/Neuroanatomy	3-4
PHYS 201, 202	Physics	10
BIOS 345, 346	Physiology	7

Total

106-111

*All of the life and physical science courses, except for biomechanics/kinesiology and neuroscience/neuroanatomy, must include a laboratory component.

Selection Procedures

Using the application information, the Admissions Committee will screen applicants based upon overall and prerequisite life and physical sciences' g.p.a. At the next level of screening, group interviews will be scheduled with selected applicants.

The Admissions Committee of the School of Physical Therapy considers the following in ranking eligible applicants:

- 1 overall g.p.a.
- 2 prerequisite life and physical sciences g.p.a.
- 3 essay
- 4 references
- 5 interview

No more than 34 students will be admitted yearly. Applicants will be notified of acceptance in mid-April.

Eligibility Requirements to Begin Physical Therapy Coursework

Prior to beginning physical therapy coursework in June 1995, all admitted students must meet the following requirements:

- 1 completion of all prerequisite coursework by the end of the 1995 spring quarter or semester.
- 2 completion of a minimum of 104-109 undergraduate quarter hours or 69-73 semester hours by the end of the 1995 spring quarter or semester.
- 3 be admitted to Ohio University, if a transfer student.

Program of Study

The following is a listing of the courses required in the two-calendar year professional education program in physical therapy.

PT 410	Human Anatomy and Dissection	7
PT 425	Principles of Clinical Teaching	4
PT 426	Research Seminar	4
PT 441*	Community Practice Problems I	3
PT 442*	Community Practice Problems II	3
PT 443*	Community Practice Problems III	3
PT 444*	Community Practice Problems IV	3
PT 446*	Community Practice Problems V	3
PT 447†	Clinical Practicum I	5
PT 448†	Clinical Practicum II	7
PT 449†	Clinical Practicum III	12
PT 450	Intro to Clinical Problems	4
PT 451	Musculoskeletal Problems I	5
PT 452	Musculoskeletal Problems II	5
PT 453	Musculoskeletal Problems III	4
PT 455	Neuromuscular Problems I	5
PT 456	Neuromuscular Problems II	5
PT 458	Topics in Cardiovascular Evaluation	3
PT 459	General Medical Surgical Problems I	4
PT 460	Critical Analysis of PT Evaluation Processes	3
PT 480	Cardiopulmonary Problems	4
PT 481	Medical-Surgical Problems II	4
PT 490	Independent Study	4
PT 493	Neuromuscular Problems III	5
PT 494	Problems in Positioning	2
	Elective* (Tier III)	4

*Community practice problems courses will entail periodic local travel away from the main campus. Students are responsible for transportation to clinical sites.

†The clinical practica are full 40-hour-week experiences. Clinical Practicum I is 4 weeks in length. Clinical Practicum II is 6 weeks in length. Clinical Practicum III is 10 weeks in length. Students are responsible for providing their own transportation to and from clinical sites and for housing and other living expenses.

*The student will choose electives in consultation with the faculty advisor.

Note: most undergraduate courses offered through the School of Physical Therapy can be retaken one time (i.e., one initial registration and one retake). Variable-credit courses usually cannot be retaken (i.e., possibility of initial grade being removed), but can be repeated for credit to count toward one's degree.

School of Recreation and Sport Sciences

Keith D. Ernce, Director

Physical education and sport sciences programs have been designed to promote basic knowledge in human movement, to provide contemporary professional curricula, and to offer diverse activity programs that provide for the development of motor skills and physical fitness for all students.

The Recreation Studies Program is designed to serve students with diverse career interests in the field of recreation. The curricula is designed to provide students with a comprehensive program that includes both basic and practical knowledge in the field of recreation. Both major and minor curricula are offered.

Note: most courses offered through the School of Recreation and Sport Sciences can be retaken up to two times (i.e., one initial registration and two retakes). Variable credit courses usually cannot be retaken (i.e., possibility of initial grade being removed), but can be repeated for credit to count toward one's degree. While no limit has been set for repeats of HSC, HSM, and HSW courses, individual majors, schools/departments, and/or colleges may limit the number of such hours that can count toward graduation.

Athletic Training

Selected admission to the major is gained through an on-campus interview and the completion of curriculum application materials, in addition to the regular University application materials, prior to February 1. For information on how to apply, contact the Athletic Training Academic Program, P.O. Box 689, Ohio University, Athens OH 45701-0689.

All selected candidates must have a hepatitis B vaccination prior to enrolling. Students selected to participate in this program must complete a minimum of 800 hours of clinical experience between the sophomore and senior years. Successful completion of the program qualifies the student to take the National Athletic Trainer's Association, Inc., Certification Examination and the State of Ohio Trainer Licensure Examination. Students are awarded the Bachelor of Science in Sports Sciences upon completion of the program.

Most athletic training courses are open to students within the University. Students must meet the prerequisites or see the instructor for permission to enroll.

Athletic Training Core Courses

BIOS 302	Human Anatomy	6
BIOS 345	Human Physiology	4
HCFN 128	Intro to Nutrition	4
HLTH 202	Health Sciences and Lifestyle Choices	4
HLTH 204	Drugs, Alcohol, and Tobacco	4
HLTH 230	Medical Terminology for Health Admin.	4
HLTH 227	First Aid	3
HLTH 228	CPR	1
HLTH 327	Instructor First Aid	3
HLTH 328	Instructor CPR	3
HPES 302 or BIOS 352	Biomechanics	4
HPES 333	Adapted Physical Education	4
HPES 414, 415 or BIOS 445, 446	Physiology of Exercise and Lab	7
HSAT 129	Principles of Athletic Training	3
HSAT 131	Practical Aspects of Athletic Training	2
HSAT 326	Recognition and Evaluation of Athletic Injuries	4
HSAT 327	Prevention and Management of Athletic Injuries	3
HSAT 335	Therapeutic Modalities	5
HSAT 345	Emergency Care of Athletic Injuries	3
HSAT 360	Therapeutic Exercise	5
HSAT 420	Administration of Athletic Training	3
PHYS 201, 202	Intro to Physics	10
PSY 101	General Psychology	5
PSY 121	Elementary Statistics	5

In addition to the courses above, students must select an area of specialization listed below. Students should work closely with their advisor to ensure the best possible match between their selected area of specialization and their future career goals.

Athletic Training/Exercise Physiology

(Major code #BS8117)

Required Related Courses

BIOS 170, 171	Intro to Zoology	10
CHEM 121, 122, 123 or CHEM 151, 152, 153	Principles of Chemistry Fund. of Chemistry	12
HPES 105	Conditioning and Organic Efficiency	2
HPES 106	Intro to Human Movement	2
HPES 417	Exercise Prescription	4
MATH 113 or MATH 163A	Algebra	5
	Intro to Calculus	4

Athletic Training/Health Education

(Major code #BS8127)

Required Related Courses

BIOL 101 or BIOS 170	Principles of Biology Intro to Zoology	5 5
BIOS 103 or HCCF 360	Human Biology Human Sexuality	5 4
HLTH 101	Intro to Health and Human Services	2
HLTH 379	Teaching of Health	4
HLTH 390	Community Health	4
HLTH 495	School Health Problems	5
HPES 390	Safety Education	4
HPES 409	Tests and Measurements	4
MICR 211, 212	Environ. Microbiology and Lab	6

Required Professional Education Courses

EDCI 275 or PSY 275	Learning Processes in the Classroom Educational Psychology	5 4
EDCI 401	Advanced Field Experience-Multicultural	2
EDCI 480	Teacher, School, and Society	4
EDM 480	Intro to Educational Media	4
EDPL 463, 464	Student Teaching	13
EDPL 465	Student Teaching Seminar	3
EDSE 250, 250L	Analysis of Teaching Char. and Tasks and Lab	6
EDSE 270, 270L	Studies of Learner and Lab	4
EDSE 351	Instructional Processes and Curriculum	5
EDSE 420, 420L	Teaching of Reading in Content Area and Lab	5

Students also need to complete the General Education Requirements listed for Health Education. See School of Health Sciences for further information.

Students also must complete Ohio University's General Education Requirements (see General Education Requirements section of this catalog). Students are encouraged to work closely with their faculty advisor to make certain that both sets of requirements are met.

The breakdown of these teacher certification general education course requirements is:

Science and Mathematics

Each student is required to complete at least one course in science and one course in mathematics. The Tier I quantitative skills requirement may be used to fulfill the mathematics requirement. BIOL 101, Principles of Biology, is required.

Comparative Arts and/or Philosophy

Each student is required to complete at least two courses in this area, but they need not be in the same field. Possibilities include any course in philosophy; comparative arts; HUM 107, 108, 109, 307, 308, or 309; art history; art (except 360, 461, and 462); music (except music education courses, music therapy courses, and the one and two hour participation courses); and theater history courses.

Social Sciences

Each student is required to complete at least two courses in this area. The two courses need not be in the same field. PSY 101, General Psychology, is required.

English and/or Foreign Language

Each student is required to complete at least two courses in English and/or foreign language. The two courses need not be in the same field. Freshman and junior English composition courses taken to satisfy the University General Education Tier I requirements may be used toward completion of these hours.

In addition, students must complete INCO 103, Fundamentals of Public Speaking, to be admitted to Professional Education within the College of Education.

Physical Education

(Major code #BS8106)

A major in physical education prepares men and women to teach physical education at the elementary and secondary school levels (K-12 teaching certification). A student must be a physical education major for at least one academic year (3 quarters) immediately prior to graduation to be granted a Bachelor of Science in Physical Education degree.

Required Teacher Certification General Education Courses

The current state of Ohio requirements for teacher certification state that a person applying for a teaching certificate must complete 45 quarter hours of general education courses well distributed in the areas of science and mathematics, social sciences, English and/or foreign language, and comparative arts and/or philosophy.

Physical Education Courses

BIOS 302	Human Anatomy	6
HLTH 227	First Aid	3
HPES 105	Cond. for Activities and Organic Efficiency	2
HPES 106	Intro to Human Movement	2
HPES 115	Rhythmics	2
HPES 134	Intro to Field Experiences	2
HPES 222	Tumbling and Modern Gymnastics	2
HPES 223	Track and Field	2
HPES 273	Movement Education and Fund. Skills	3
HPES 275	Elementary School Rhythm and Dance	3
HPES 302	Biomechanics	4
HPES 325	Human Dynamics in Coaching	3
HPES 333	Adapted Physical Education	4
HPES 345	Intro to Exercise Physiology	4
HPES 404	History and Principles of Physical Education	4
HPES 405	Motor Learning	4
HPES 406	Organization and Admin. of Physical Education	4
HPES 409	Tests and Measurements	4

1 Team Sports (select 4 hrs)

HPES 260A	Flag Football	1
HPES 260B	Team Handball	1
HPES 262A	Field Hockey	1
HPES 262B	Soccer	1
HPES 263A	Basketball	1
HPES 263B	Volleyball	1
HPES 264A	Softball	1
HPES 264B	Lacrosse	1

2 Individual Sports (select 2 hrs)

HPES 141A	Archery	1
HPES 141B	Golf	1
HPES 221A	Tennis	1
HPES 221B	Badminton	1
HPES 224A	Racquetball	1
HPES 224B	Wrestling	1

3 Aquatics (select 2 hrs)

HPES 104	Intermediate Swimming	2
HPES 218	Life Guard Training	2
HPES 220	Water Safety Instructors	2

4 Dance (select 2 hrs)

HPES 107	Modern Dance	2
HPES 116	Social Forms of Dance	2
HPES 117	Folk and Square Dance	2

5 Outdoor Education (select one course)

HPES 291	Outdoor Pursuits	3
HPES 311	Expedition Management	3
HPES 314	Camping	4
HPES 315	Outdoor Education and Recreation	4

6 Theory and Practice

HPES 377	Theory and Practice of Elem. Phys. Ed	3
HPES 372	Theory and Practice of Team and Ind. Sports	3

Note: professional attire is required for all HPES lab courses and courses with lab components.

Required Professional Education Courses

EDCI 275	Learning Processes in the Classroom	5
or PSY 275	Educational Psychology	4
EDCI 401	Advanced Field Experience-Multicultural	2
EDCI 480	Teacher, School, and Society	4
EDM 480	Intro to Educational Media	4
EDPL 461, 464	Student Teaching	13
EDPL 465	Student Teaching Seminar	3
EDSE 250	Analysis of Teaching Char. and Teaching Tasks	4
EDSE 270, 270L	Studies of the Learner: Dev. and Excep. and Lab	4
EDSE 351	Instructional Processes and Curriculum	5
EDSE 420, 420L	Teaching of Reading in Content Area and Lab	5
HPES 234, 334	Clinical and Field Exp. in Physical Education	4
HPES 402	Learning Strategies	4

Note: no more than 3 hours of credit in each of the following courses will count toward the 192 hours needed for graduation:

BIOS 382 and/or BIOS 482	Topics in Zoology	
HSC 107	Conditioning and Weight Training	
HPES 41BA	Instructional Experience	
MUS 244A	Marching Band	

Adapted Physical Education Validation

This validation can be attached to an already existing physical education certificate (elementary, secondary, or combination) or special education certificate. The validation provides an opportunity for individuals already working in physical education or special education to develop the skills necessary to work with handicapped students and other professionals concerned with this population.

HPES 104 or HPES 218 or HPES 220	Intermediate Swimming Life Guard Training Water Safety Instructors	2 2 2
HPES 105	Conditioning for Activities and Organic Efficiency	2
HPES 273	Movement Education and Fund. Skills	3
HPES 333	Adapted Physical Education	4
HPES 434	Field Experience in Adapted Physical Ed.	2
HPES 480	Methods in Adapted Physical Ed. Analysis and Desc.	3
HPES 485	Perceptual Motor Development in Children	3

Select 8 hours from:

HPES 116	Social Forms of Dance	2
HPES 117	Folk and Square Dance	2
HPES 221B	Badminton	1
HPES 222	Tumbling and Modern Gymnastics	2
HPES 223	Track and Field	2
HPES 224A	Racquetball	1
HPES 262B	Soccer	1
HPES 263A	Basketball	1
HPES 263B	Volleyball	1
HREC 108	Technical Climbing and Rappelling	1
HREC 112	Backpacking	1
HREC 113	Canoeing	1
HREC 291	Outdoor Pursuits	3

Recreation Studies

The coursework is designed to prepare students in the basic recreation core and allow them to concentrate in adventure recreation, camping, outdoor education, recreation management, therapeutic recreation, or special interests. Students who successfully complete the requirements will be awarded the Bachelor of Science in Recreation Studies degree.

The curriculum prepares students to assume positions in city recreation and park departments, state and federal government agencies, youth service agencies, institutional recreation, industrial agencies, religious organizations, camping, commercial recreation, and administration.

Health and Sport Sciences

(Select 20 hrs)

HLTH 202	Health Sciences and Lifestyle Choices	4
HLTH 204	Drugs, Alcohol, and Tobacco	4
HLTH 227*	First Aid	3
HLTH 228	CPR	1
HLTH 327	Instructor's First Aid	3
HLTH 328	Instructor CPR	3
HPES 115	Rhythmics	2
HPES 218	Life Guard Training	2
HPES 220	Water Safety for Instructors	3
HPES 339	Football Officiating	3
HPES 340	Basketball Officiating	3
HPES 341	Baseball Officiating	3
HPES 390*	Safety Education	4
HREC 290*	Recreational Sport Officiating	3
HREC 381*	Administration of Recreational Sports	4

Professional Recreation Core

(Select 50 hrs)

HREC 199	Intro to Therapeutic Rec. Services	3
HREC 200*	Intro to Leisure	2
HREC 236	Field Experience in Recreation	1-3
HREC 250	Recreation Leadership	3
HREC 251	Crafts for Recreation Programs	3
HREC 310*	Program Planning and Facilities for Rec.	5
HREC 314	Camping	4
HREC 315	Outdoor Education and Recreation	4
HREC 336*	Field Experience in Recreation	3
HREC 345	Camp Leadership	2
HREC 403	History of Recreation	3
HREC 440*	Internship	16
HREC 449*	Administration of Recreation	4

Professional Education

EDM 480	Intro to Educational Media	4
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Recreation Tool Courses

(Select 18 hrs)

HPES 273	Movement Education and Fund. Skills	3
HPES 274	Sport and Game Skills for Elem. School Children	3
HREC 240	Taxidermy	2
HREC 241	Taxidermy II	2

Or select any course from ART, MUS, THAR

Physical Education or Recreation Activities

Select 9 courses from any HREC 100-level course (except 199), HSC, HSM, or HSW.

*Denotes required course

In addition to the courses listed above, students must select an area of specialization from the following:

Adventure Recreation

(Major code #BS8113)

This option focuses upon planning, conducting, and administering high adventure and wilderness skills programs. Students may qualify for positions with various wilderness and survival schools, outdoor leadership programs, expedition outfitters, and commercial enterprises in high adventure activities. Career opportunities are also increasing in programs involving juvenile offenders in both public and private agencies.

Select a minimum of 35 hours from:

PBIO 220	Fall Plants	4
GEOL 215	Environ. Geology	4
GEOL 231	Water and Pollution	4
GEOL 330	Principles of Geomorphology	5
GEOL 407	Geological Applications of Remote Sensing	4
HREC 101*	Orienteering	1
HREC 102*	Advanced Orienteering	1
HREC 105	Whitewater Rafting	1
HREC 106	Hunting	1
HREC 107	Trap Shooting	1
HREC 108	Technical Climbing	1
HREC 111	Cross Country Skiing	1
HREC 112	Backpacking	1
HREC 113	Canoeing	1
HREC 114	Kayaking	1
HREC 115	Ropes	1
HREC 116	Rescue Techniques	1
HREC 117	Primitive Construction	1
HREC 291	Outdoor Pursuits	3
HREC 311*	Expedition Management	3
HREC 390*	Wilderness Survival	3
HREC 475*	Adventure Programming	3
SOC 201	Contemporary Social Problems	4
SOC 210	Intro to Social Psychology	4
SOC 351	Deviant Behavior	4
SOC 363	Juvenile Delinquency	4
SOC 456	Penology	4
SW 101	Intro to Social Welfare and Social Work	3

*Denotes required course

Outdoor Education and Camping

(Major code #BS8108)

This option focuses upon planning, conducting, and administering outdoor recreation programs, with special emphasis available for school-oriented programs and resident camping. Students may qualify for positions as interpretive naturalists, outdoor education resource persons, camp directors, visitor information center directors, or supervisors of outdoor recreation programs in federal, state, and local agencies.

Select a minimum of 35 hours from:

ASTR 100	Survey of Astronomy	4
BIOS 170	Intro to Zoology	5
BIOS 435	Entomology	6
BIOS 475 or PBIO 425	Sociobiology Plant Ecology	3 5
EDCI 275 or PSY 275	Learning Processes in the Classroom Educational Psychology	5 4
GEOG 101	Elements of Physical Geography	5
GEOG 201 or GEOL 215	Environ. Geography Environ. Geology	4 4
GEOL 101	Intro to Geology	4
GEOL 231	Water and Pollution	4
GEOL 310	Rocks and Minerals	6
HREC 101	Orienteering	1
HREC 102	Advanced Orienteering	1
HREC 103	Survival I	1
HREC 240	Taxidermy	1
HREC 241	Taxidermy II	1
PBIO 102	Plant Biology	5
PBIO 220	Woody Plants	4
PBIO 225	Flowers	4
PBIO 247	Vegetation of North America	4
PBIO 311	Biology and Human Affairs	4
PBIO 426	Physiological Plant Ecology	5

Recreational Management

(Major code #BS8109)

This option focuses upon the administration of recreation programs and qualifies students for positions with public recreation, voluntary agencies, resident institutions, and camp administration.

Select a minimum of 35 hours from:

ACCT 201	Financial Accounting	4
BUSL 255	Law and Society	4
BUSL 465	Law of Sports	4
CS 120* or HS 309*	Computer Science Survey Microcomputer Applications	3 4
CS 220	Intro to Computing	5
ECON 103	Principles of Microeconomics	4
HPES 313	Sport Club Management	3
HREC 311	Expedition Management	3
HRM 420	Human Resource Management	4
HRM 425	Labor Relations	4
HRM 460	Human Resource Policy, Planning, and Info. Sys.	4
JOUR 105	Intro to Mass Communication	4
JOUR 221	Graphics of Communication	5
JOUR 231	New Reporting	4
JOUR 250	Principles of Advertising	4
JOUR 471	Public Relations Principles	5
MGT 200 or MGT 300	Intro to Management Management	4 4
MGT 340	Organizational Behavior-Micro Perspective	4
MGT 428	Nonindustrial Labor Relations	4
MGT 450	Managing Health Care Organizations	4
MKT 301	Marketing Principles	4

*Denotes required course

Special Interests

(Major code #BS8110)

This option focuses upon individualized programs designed to meet unique career goals and will qualify students for extremely specialized positions in recreation and recreation-related fields. This option is not available to any student who can meet his or her career goals through one of the existing courses of study.

The special interests concentration consists of the student selecting, in consultation with an assigned advisor from the recreation studies faculty, a 35-hour course of study directed toward his or her particular goals. The student's course of study must be approved by the faculty. A copy of the student's program will be filed with the recreation studies coordinator and assistant dean, College of Health and Human Services.

Therapeutic Recreation

(Major code #BS8104)

This option focuses upon planning, conducting, and administering recreation programs serving the ill, disabled, aging, and disadvantaged in institutional and community settings. Students may qualify for positions serving people with disabilities in the areas of emotional illness, mental retardation, physically handicapped, and aging. Career opportunities are also increasing rapidly in penal and correctional settings and community programs serving the culturally/socially disadvantaged.

Required Professional Courses

HREC 201	Recreation for Special Populations	4
HREC 301	Leisure Education and Facilitation Techniques	4
HREC 376	Principles and Practices of Therapeutic Rec.	3
HREC 470	Comp. Program Planning in Therapeutic Rec.	4
HREC 471	Specific Program Planning and Evaluation	3
HREC 472	Professional Issues in Therapeutic Recreation	4

Select a minimum of 13 hours:

BIOS 302	Human Anatomy	6
EDEL 200 or HCCF 160 or PSY 273	Studies of Children Intro to Child Development Child and Adolescent Psychology	4 4 4
EDSP 270	Classroom Mgt. of Children w/Behavioral Problems	3
EDSP 271	Intro to Ed. of the Excep. Children and Youth	4
EDSP 378	Principles of Work for Persons with Disabilities	3
EDSP 400	Nature and Needs of SBH	3
EDSP 477	Comm. w/Parents and Professionals in Special Ed	4
HLTH 413	Health Aspects of Aging	4
HPES 302	Biomechanics	4
HPES 333	Adapted Physical Education	4
HPES 485	Perceptual Motor Development in Children	3
HREC 214	Camping for Special Populations	2
HREC 377	Admin. of Activities for Therapeutic Recreation	3
HREC 430	Principles of Therapeutic Rec. for MR	3
HREC 460	Understanding Play	3
HSS 378	Sign Language	4
MUS 181	Intro to Music Therapy	3
PSY 231	Psychology of Adjustment	4
PSY 332	Abnormal Psychology	4
PSY 376	Psychological Disorders of Childhood	4
SOC 334	Sociology of Aging	4
SOC 361	Deviant Behavior	4
SOC 363	Juvenile Delinquency	4

Minor in Recreation

Select 35 hours from:

HREC 199	Intro to Therapeutic Recreation	3
HREC 200	Intro to Leisure	2
HREC 201	Recreation for Special Populations	4
HREC 250	Recreation Leadership	3
HREC 251	Art and Nature Crafts	3
HREC 310	Program Planning and Facilities	5
HREC 314	Camping	4
HREC 315	Outdoor Education and Outdoor Rec.	4
HREC 345	Camp Leadership	2
HREC 376	Therapeutic Recreation	4
HREC 403	History of Recreation	3
HREC 449	Community Recreation	4
HREC 475	Adventure Programming	3

Sport Sciences

The sport sciences include six areas of specialization: aquatic management, coaching, exercise physiology, sport industry, sport for special populations, and youth sports.

A student must be a sport sciences major for at least one academic year (3 quarters) immediately prior to graduation to be granted a Bachelor of Science in Sport Sciences degree. No more than 3 quarter hours of credit in each of the following courses will count toward the 192 hours needed for graduation:

BIOS 382 and/or BIOS 482	Topics in Zoology
HSC 107	Conditioning and Weight Training
HPES 418A	Instructional Experience
MUS 244A	Marching Band

Sport Sciences Core Courses

ANTH 101	Intro to Cultural Anthropology	5
HLTH 204	Drugs, Alcohol, and Tobacco	4
HLTH 227	First Aid	3
	HPES Skills Classes	10-14
HPES 105	Cond. for Activity and Organic Efficiency	2
HPES 106	Intro to Human Movement	2
HPES 261	Sport Sciences Practicum	1
HPES 273	Movement Education and Fund. Skills	3
or HPES 274	Sport and Game Skills in Elem. School Children	3
or HPES 275	Elem. School Rhythm and Dance	3
HPES 390	Safety Education	4
HPES 404	History and Principles of Physical Ed	4
HPES 406	Organization and Admin of Physical Ed	4
INCO 103	Fund. of Public Speaking	4
PSY 101	General Psychology	5
PSY 121	Elementary Statistics	5
PSY 233	Psychology of Personality	4

*When professional attire is required for all HPES lab courses and courses with lab components

In addition to the above courses, students are to select one of the following areas of specialization:

Aquatic Management

(Major code #BS8120)

Required Related Courses

BUSL 255	Law and Society	4
HLTH 228	CPR	1

Select minimum of 4 credits from the following:

HPES 109	Synchronized Swimming	2
HPES 265	Diving and Competitive Swimming	2
HREC 113	Canoeing	1
HSC 128	Water Skiing	1
HSC 155	Water Polo	1
HSC 156	Scuba Diving	1

(none of the above can be used to satisfy HPES skills requirement of core)

HPES 212	Intro to Coaching	3
HPES 220	Water Safety Instruction	3
(may not be used to satisfy HPES skills requirement of core)		
HPES 305	Coaching of Swimming and Diving	2
HPES 314	Coaching Sports for the Disabled	2
HPES 373	Adapted Aquatics	3
HPES 390	Safety Education	4
HPES 455	Admin. of Aquatic Facilities	3
INCO 101	Fund. of Human Communication	4
MGT 200	Intro to Management	4

Coaching

(Major code #BS8121)

Required Related Courses

HCFN 128	Intro to Nutrition	4
HLTH 228	CPR	1
HPES 212	Intro to Coaching	3
HPES 215	Practicum in Athletics	2
HPES 319	Research in Physical and Motor Dev. in Athletics	3
HPES 325	Human Dynamics in Coaching	3
HPES 412	Administration of Sports	3
HSAT 128	Intro to Athletic Training	2
PHIL 231	Philosophy of Sport	4
SOC 233	Sociology of Sport	4

Select 2 coaching courses from:

HPES 305	Swimming and Diving	2
HPES 318	Tennis	3
HPES 320	Wrestling	3
HPES 324	Soccer	3
HPES 351	Golf	2
HPES 352	Ice Hockey	3
HPES 353	Lacrosse	3
HPES 354	Volleyball	3
HPES 356	Field Hockey	3
HPES 365	Basketball	3
HPES 366A	Baseball	3
HPES 366B	Softball	3
HPES 367	Football	3
HPES 368	Track	3

Exercise Physiology***(Major code #BS8122)****Required Related Courses**

BIOL 101 or BIOS 170, 171, 172, 173	Principles of Biology	5
BIOS 302	Intro to Zoology	14
BIOS 345, 346	Human Anatomy	6
BIOS 345, 346	Human Physiology and Lab	3
CHEM 121, 122, 123 or CHEM 151, 152, 153	Principles of Chemistry Fund. of Chemistry	12 15
HCFN 128	Intro to Nutrition	4
HPES 302	Biomechanics	4
HPES 405	Motor Learning	4
HPES 414, 415	Physiology of Exercise and Lab	7
HPES 417	Exercise Prescription	4
MATH 113	Algebra	5
or MATH 163A	Intro to Calculus	4
PHYS 201, 202	Intro to Physics	10

*The Sport Sciences-Exercise Physiology option can be used to fulfill most of the School of Physical Therapy's prerequisites for admission.

Sport Industry**(Major code #BS8123)****Required Related Courses**

ACCT 201	Financial Accounting	4
CS 120	Computer Science Survey	3
ECON 103	Principles of Microeconomics	4
HPES 213 or HPES 400 or HPES 408	Youth Sports Women and Sport Black Athlete and American Sport	3 3 3
or HPES 411	The Olympic Movement	3
HPES 313	Sport Club Management	3
HPES 325	Human Dynamics of Coaching	3
HPES 412	Administration of Sports	3
MGT 200	Intro to Management	4
PSY 310 or PSY 332 or PSY 336	Motivation Abnormal Psychology Social Psychology	4 4 4
SOC 101	Intro to Sociology	5
SOC 233	Sociology of Sport	4

Select 3 courses from the following:

AAS 440	The Black Child	4
BUSL 255	Law and Society	4
BUSL 465	Law of Sports	4
INCO 205	Group Discussion	4
INCO 206	Comm. in Interpersonal Relations	4
INCO 304	Principles and Techniques of Interviewing	4
MKT 461	Social Issues of Marketing	4
SOC 211	Crowd and Mass Behavior	4
SOC 363	Juvenile Delinquency	4
SOC 470	Sex Roles and Inequality	4

Sport for Special Populations

(Major code #858124)

Required Related Courses

HPES 212	Intro to Coaching	3
HPES 314	Coaching Sports for the Disabled	2
HPES 325	Human Dynamics of Coaching	3
HPES 333	Adapted Physical Education	3
HPES 373	Adapted Aquatics	3
HPES 405	Motor Learning	4
HPES 412	Administration of Sports	3
HPES 434	Field Experience	2
INCO 101	Fund. of Human Communication	4
INCO 206	Comm. in Interpersonal Relationships	4
PSY 231	Psychology of Adjustment	4
PSY 275	Educational Psychology	4
PSY 310	Motivation	4
or PSY 332	Abnormal Psychology	4
or PSY 336	Social Psychology	4
SOC 101	Intro to Sociology	5
SOC 210	Intro to Social Psychology	4
SOC 233	Sociology of Sport	4

Youth Sports

(Major code #858125)

Required Related Courses

AAS 440	The Black Child	4
HCCF 160 or PSY 273	Intro to Child Development Child and Adolescent Psychology	4
HCFN 128	Intro to Nutrition	4
HLTH 228	CPR	1
HPES 212	Intro to Coaching	3
HPES 213	Youth Sports	3
HPES 215	Coaching Practicum	2
HPES 273	Movement Education and Fund. Skills	3
HPES 274	Sport and Game Skills for Elem. Physical Ed.	3
HPES 485	Perceptual Motor Development in Children	3
HREC 460	Understanding Play	3
PSY 376	Psychological Disorders of Childhood	4
SOC 101	Intro to Sociology	5
SOC 233	Sociology of Sport	4

Honors Tutorial College

Margaret F. Cohn, *Dean*

Ann C. Brown, *Assistant Dean*

The Honors Tutorial College offers 24 challenging degree programs to qualified students admitted at the beginning of the freshman or sophomore year. The Honors Tutorial College also administers the Departmental Honors Program, a thesis option for eligible undergraduates in other colleges at Ohio University.

The Tutorial Program. This unique academic program is modeled on the educational method used in British universities, notably Oxford and Cambridge. Although other colleges and universities have adopted particular features of this model, Ohio University is the only institution in the United States that has a degree-granting college incorporating all the essential features of the traditional tutorial system.

Goals of the Program

To provide the high-ability student with a flexible and personalized alternative at the undergraduate level.

To provide an intensified learning experience by:

Replacing lecture with tutorial in the student's major.

Permitting each student to progress at an optimum pace.

Promoting advanced competency in a specific field.

Allowing the student to earn a bachelor's degree in three years.

Encouraging the student to develop critical perceptions as well as creative and intellectual independence.

Acquainting the student with accomplished scholars through the one-to-one tutorial relationship.

Fostering a living-learning environment in a special residence hall.

To provide the preprofessional student with practical training through internships and other individually arranged educational experiences.

A One-to-One Learning Experience

The most important aspect of the program is the tutorial, required in the student's major, occasionally available in a secondary field. During this weekly conference the student and tutor discuss previously assigned topics, posing new questions and problems for later discussion. Since the student is expected to participate actively during tutorials, independent preparation occupies much of the student's time between sessions.

The rapport established in this one-to-one relationship enhances learning and expedites progress in the field. It also ensures that the student's ability and specific interests are reflected in the content of the tutorials.

Honors Tutorial Majors

Through formal arrangements with various academic departments in the University, the Honors Tutorial College offers majors in:

Biological Sciences
Business Administration
Chemistry
Dance
Economics
Engineering Physics
English
Environmental and Plant Biology
Film
French
Geography
Hearing and Speech Sciences
History
Interpersonal Communication
Journalism
Mathematics
Philosophy
Physics and Astronomy
Political Science
Psychology
Sociology
Spanish
Telecommunications
Theater

Only these disciplines are available as tutorial majors at the present time. Certification in Secondary Education may be added to the tutorial degree in another major by a limited number of students.

Participating departments have well established research facilities, and the tutors are full-time faculty with many years of professional experience.

Tutorial students preparing for careers in law may major in any of the above areas or choose special prelaw programs in economics, history, philosophy, and political science.

Detailed descriptions of departmental programs in tutorial studies can be obtained by contacting the dean of the Honors Tutorial College, Ohio University, 35 Park Place, Athens OH 45701-2979, telephone 614-593-2723.

Individualized Program

To ensure both supervised structure and independent choice, each participating department has a director of studies who coordinates the programs of tutorial students in that major. Combining departmental requirements and the student's interests, the director helps to develop a curriculum that best meets each student's needs.

While preparation for advanced training in a particular discipline remains the overall objective of the tutorial program, pursuit of other intellectual or creative inclinations is encouraged.

Major requirements generally include a sequence of tutorials, collateral studies, lectures, seminars, comprehensive examinations, and, in some areas, laboratory, field, or studio work. In many departments, the tutorial student also completes a research thesis or creative project under the direction of a faculty member.

Examinations

In most tutorial majors, students take comprehensive examinations. When the tutor judges that the student has thoroughly mastered all relevant material, a comprehensive examination is given to test competency, either in the field as a whole or in a selected portion of it. Like the tutorial, these examinations require, on an expanded scale, that the student assimilate information and consider it again in the light of other knowledge and experience.

Since the tutorial system works best when the faculty-student relationship is free from the pressure of formal examinations, departmental committees prepare and grade comprehensive examinations. However, the tutor may, at any time, use a variety of methods to test the student's grasp of ideas and to assess his or her progress. This process not only intensifies the student's participation in tutorials but also forms the basis for the tutor's quarterly evaluation, a report notifying both the college and the student that satisfactory progress is being made or that specific problems require attention.

Degree Requirements

To earn a bachelor's degree in the Honors Tutorial College, the student must fulfill all academic requirements established by the department for his or her particular tutorial major and have at least a 3.0 overall grade-point average (g.p.a.). The student must also satisfy the University's English composition requirement. To foster measurable competency in a given field, the Honors Tutorial College does not mandate a fixed hour or residency requirement or a specific course distribution (except as required by individual departments). A student in this college earning a second bachelor's degree in another college at Ohio University also must complete all the requirements established by the second college.

Academic departments participating in the Honors Tutorial College set their own tutorial degree requirements, including required courses outside the major field. In this respect, the tutorial curriculum is much like that of a graduate program. Each department offering a tutorial program has developed a course of study designed to give the student mastery of the field at an advanced undergraduate level. When the department is satisfied that all tutorial requirements have been met, the student may graduate from Ohio University with a degree in that major.

A Bachelor's Degree in Three Years

Many of the tutorial programs enable a student to graduate in three years, although additional time may be desirable in a variety of circumstances. Graduates of the Honors Tutorial College frequently find their level of preparation comparable to that of students entering the second year of graduate work.

Degrees conferred by the college include the Bachelor of Fine Arts in (major), Bachelor of Science in Journalism, Bachelor of Science in Communication in (major), Bachelor of Arts in (major), Bachelor of Science in (major), and Bachelor of Business Administration.

Placement of Graduates

The Honors Tutorial College has earned a reputation for graduate and professional school placement. To date, most students wishing to continue their education have been placed in master's programs, doctoral programs, law schools, and medical schools. Others have readily found employment in fields related to their undergraduate work, particularly in journalism, theater, hearing and speech, and business. A number of graduates in the humanities have found teaching or research jobs. With a relatively small enrollment in this degree program, faculty tutors and college administrators guide students personally toward their graduate interests and career opportunities.

Housing Privileges

Students admitted to the Honors Tutorial College are invited to live in Hoover House, an intensive-study dormitory on the New South Green. A computer laboratory in this residence hall is available for all students in the college. Students may use their own computers or those in the laboratory. Located among upperclass residence halls, Hoover House provides an environment conducive to mature self-discipline and intellectual dialogue. While most tutorial students choose this unique living-learning opportunity, alternative University housing is available for those who prefer it.

Selectivity and Admission

Tutorial studies are available only to the well qualified, highly motivated student who wants to pursue one of the 24 academic areas listed above. Students apply for admission to specific disciplines.

With the approval of participating departments, the college admits a limited number of majors each year. Although most eligible students enter the program at the freshman level, others apply after completing a year of undergraduate work. Transfer and re-entry students are also admitted.

The college requires excellent academic credentials. Standardized test scores, high school records, and recommendations from teachers or counselors all help to determine an applicant's eligibility. Students must fill out the standard Ohio University application form and submit it to the Honors Tutorial College. Once the applicant's file is complete, an admission interview must be arranged by contacting the college office. All admission materials must be received and interviews completed by February 1 of the year the student wishes to enter the college. Many departments admit students on a rolling basis until spaces are filled, so early application is encouraged. Unsuccessful candidates may reapply, provided that they attain at least a 3.5 g.p.a. after two or more quarters in another college.

Departmental Honors Program

An outstanding undergraduate student at Ohio University may choose to earn departmental honors by presenting a thesis. Depending upon the major field, the thesis may be either an expository or creative piece of original work, the result of supervised research, or a collection of artistic endeavors. A departmental thesis advisor helps in the decision of an appropriate project and guides the student toward completion of the thesis.

Before enrolling for departmental honors, the student should discuss the project with the faculty member who will serve as his or her thesis advisor. Departments determine eligibility for the program and suitability of the proposed thesis. After the proposal is approved by the department, the student should apply for departmental honors at the Honors Tutorial College, 35 Park Place.

A student choosing this option is responsible for informing the Honors Tutorial College of the nature of the project at least a month prior to graduation to ensure that the proper recognition can be given at Commencement and inscribed on the degree. When applying for graduation, the student should be sure to indicate on the form that he or she is completing an honors project.

Following departmental approval of the completed thesis, the student submits it to the Honors Tutorial College for final confirmation. To graduate with departmental honors, the student must have satisfied the honors criteria required by the major department (such as a particular g.p.a.). Students are advised to start planning this program during the junior year.

Center for International Studies

Felix V. Gagliano,
Vice Provost for International Programs

Ohio University established the Center for International Studies in 1964 to provide students and citizens of the United States and other countries with opportunities to obtain knowledge about peoples and cultures of the world, particularly Africa, Asia, and Latin America, and about related international concerns. This endeavor is founded on the broad belief that an appreciation of different values and institutions increases understanding between peoples, enriches the lives of individuals, and assists all in forming opinions on issues that affect the growing world community.

The center coordinates teaching, research, and publications activities through programs related to three world regions—Africa, Southeast Asia, and Latin America—and comparative and international topics. These programs assist in the development of courses and the expansion of library materials. They support visiting lecturers, film series, seminars, and colloquia throughout the year. More than 100 scholarly papers relating to Africa, Southeast Asia, and Latin America have appeared in the center's publication program. An East Asia Committee also functions with some modest support from the center.

At the undergraduate level, an interdisciplinary Bachelor of Arts in International Studies with concentrations in Asia, Africa, Latin America, and Europe is offered jointly by the center and the College of Arts and Sciences. The center also offers non majors a certificate in Asian, African, European, or Latin American Studies. (See complete description under the College of Arts and Sciences, Special Curricula section of this catalog.)

Study Abroad Information Center

The Study Abroad Information Center provides a reference library and advising on overseas study and internship opportunities. Ohio University is a member of the Council on International Educational Exchange (CIEE) and the International Student Exchange Program (ISEP), which provide study abroad opportunities in more than sixty countries throughout the world. The center also coordinates advising for the Fulbright, National Security Education (NSEP), and Marshall Scholarship programs.

Phi Beta Delta

The Beta Iota chapter of Phi Beta Delta International Honor Society is headquartered at the center. Faculty, staff, and students with outstanding records of international scholarship and service are eligible for nomination.

Peace Corps

Another of the center's facilities is the Peace Corps Office, one of about 30 campus-based Peace Corps recruitment offices nationwide. Ohio University counts many returned Peace Corps volunteers among its faculty, staff, and student body.

Community Outreach

The center houses Ohio University's international community outreach arm, the Ohio Valley International Council (OVIC). OVIC provides opportunities for international students and former Peace Corps volunteers to interact with K-12 students and the community. OVIC houses a teacher resource center that supplies cultural artifacts and curriculum materials to area schools and community organizations. Students coming to Ohio University are encouraged to bring materials with which they can share their cultures.

International Cooperation

Ohio University maintains a proud tradition of international cooperation. Special educational projects are based in Malaysia, Taiwan, Southern Africa, Hungary, Germany, Japan, and many other overseas sites. More than 80 Ohio University faculty members offer courses with international focus, and a large number of these faculty have studied and taught abroad. Returned Peace Corps volunteers and more than 1,200 international students from 100 countries enrich the cultural blend of Ohio University. Alden Library, located on the tree-lined College Green, offers some of the best resources in the state regarding international topics and themes. Alden's materials include Ohio's largest collection on Africa and one of the best collections on Southeast Asia in the world. International periodicals, films, videos, and other media are also available. In addition, Ohio University is the official depository for government documents from Malaysia, Botswana, and Swaziland.

Office of Lifelong Learning

Joseph B. Tucker,
Associate Vice Provost

Andrew Chonko,
*Continuing Education, Conferences,
and Workshops*

To Be Named,
Adult Learning Services

Richard Moffit,
Independent Study

The Office of Lifelong Learning is the administrative umbrella under which the following offices operate: Continuing Education, Conferences, and Workshops; Adult Learning Services; and Independent Study. Its purpose is to provide lifelong learning opportunities beyond the regular channels of the University by using the resources of the University in nontraditional ways.

Classes, independent study courses, workshops, and seminars are planned as requests and need indicate. Both credit and noncredit programs are offered and may or may not lead to a degree. Students seeking admission to a degree program must be admitted through regular Ohio University procedures. Participants in designated noncredit courses may be awarded continuing education units (CEUs).

Programs of special interest to audiences beyond the traditional credit-seeking student include the Senior Citizens Program and the Informal Community Learners Program. The Senior Citizens Program began fall quarter, 1973, and provides an opportunity for Ohio residents who are 60 years of age or older to participate in many University courses at no cost to the participant.

The Informal Community Learners program (ICLP) allows any resident of the Ohio University community who is not currently enrolled for credit to be admitted on a space available basis to any undergraduate class offered by the University. University credit cannot be earned through ICLP or the Senior Citizens Program.

Adult Learning Services

The Office of Adult Learning Services is responsible for the development of new programs and services for the adult learner. This office provides information and counseling for the person interested in the assessment of college-level learning from prior experiences and attempts to link learners to various resources to meet their educational needs.

The External Student Program is available to students who wish to earn either the associate's or bachelor's degree primarily through the various Independent Study options or in combination with residential work. Services offered through this program include evaluation of previous college-level work and degree planning.

The Summer Institute for Adult Learners provides the opportunity for adult students to return to campus for one week of intensified study. Students earn college credit during this week and are able to

interact with other adults who are pursuing degree work. This program earned the Creative and Innovative Award of Merit for an Administrative Program from the North American Association of Summer Sessions in 1990.

The Experiential Learning Program makes it possible for adult students to acquire credit for college-level learning that has occurred through work, volunteer activities, or hobbies. For qualified students, up to one full year of college credit may be obtained toward a four-year degree. All students seeking this credit must enroll in EDCE 102, Life and Career Experiences Analysis, in order to compile their portfolio of learning. This course is offered every year in Athens and on each of the regional campuses.

For more information, contact:

Adult Learning Services
Ohio University
Tupper Hall 301
Athens OH 45701-2979
Telephone 614-593-2150

Continuing Education, Conferences, and Workshops

The Office of Continuing Education, Conferences, and Workshops offers a wide range of credit and noncredit classes and programs designed to serve the lifelong learning needs of nontraditional students. The office makes available a coordinator who serves as a consultant to anyone wanting assistance in planning a course, workshop, conference, or similar educational venture.

In addition, the office plans and develops its own programs and courses to meet the educational needs of the public at the local, state, and national levels. Its administrative services include program design, budgeting, program promotion, requisitioning of supplies and materials, registration, arranging food service and housing, reserving facilities and equipment, and program evaluation.

The standard University tuition fee is charged for credit coursework while each noncredit program has a fee determined by direct costs. Formal admission to the University is necessary only for credit courses.

More than 500 workshops, seminars, conferences, and courses are conducted on the Athens campus each year, including such diverse programs as the Conference on Inference, Austrian-American Studies Institute, Elderhostel, Ohio School of Banking, band camps, journalism workshop for high school students, summer short courses for teachers, and boys' and girls' sports clinics.

Inquiries are welcome from any individual, business, or special-interest group interested in using University expertise and/or facilities. Programs may be conducted either on campus or at off-campus sites such as industrial plants, public schools, or libraries.

Continuing Education provides evening and weekend credit classes at the graduate and undergraduate levels for the nontraditional student; certificate programs in real estate, management, and other career development areas; and experimental classes offered to determine their viability in a degree-oriented program. The Communiversities program offers each quarter a wide array of educational and avocational classes designed for area residents. Inservice training for varied interest groups including business and industry, social service agencies, and professional and civic groups, among others, is also provided.

Workshops assists various schools and departments within the University to plan, organize, and conduct short, intensive workshops that feature practical hands-on experiences and presuppose active participation on the part of enrollees.

Conferences serve as the University's contact with outside organizations who contract for use of the University's staff or facilities for educational programs and avocational activities. Such groups include the Ohio Bankers Association, Episcopal Church, the Rainbow Girls Assembly, Ohio AFL-CIO, and the Ohio Education Association.

For further information, contact:

Director, Continuing Education,
Conferences, and Workshops
Ohio University
Templeton-Blackburn Alumni Memorial
Auditorium/Lower Level
Athens OH 45701-2979

Telephone 614-593-1776

Independent Study

The Independent Study Program provides a number of flexible ways by which a person may pursue college-level work and earn college credit. In some cases degrees may be earned without some of the limitations imposed by the traditional University structure. Independent Study allows an individual to learn at the time, place, and rate suited to his or her own particular needs.

Independent Study Courses provide a highly-structured method of independent study involving a tutorial relationship with a faculty member who guides the student's learning and monitors his or her progress. A detailed study guide prepared by the professor responsible for the course is sent to each student. This publication contains an overview of the course and directs the student's learning as the textbooks, cassette audiotapes, videotapes, and other educational materials, devices, and techniques are used. The student submits written assignments that are evaluated and commented on by the professor. Supervised examinations at the student's location are generally required.

Independent Study Projects can sometimes be arranged in undergraduate courses not currently available as independent study courses. These arrangements are made on an individual basis and are contingent upon the approval of the department in which the course is offered and the availability of a qualified faculty member willing to direct the project. This is an unstructured form of independent study that can be used most effectively by the experienced student. The student and the faculty member agree upon the conditions that must be fulfilled for credit to be awarded. The work may include a variety of readings, papers, projects, and examinations.

Course Credit by Examination represents the least structured method of obtaining college credit through the Independent Study Program. The student receives at the time of enrollment a brief syllabus which describes the nature of the course, the textbooks and other materials needed, as well as the nature of the supervised examination. The student prepares for the examination without intermediate assistance from a faculty member. Letter grades and credit are awarded for performance on the examination.

The College Level Examination Program (CLEP) is especially useful for the adult who has had no previous college experience but whose work or life experience may be the basis for college credit. It is also useful for the beginning college student who has had an enriched high school experience. The program is sponsored by the College Entrance Examination Board, and the Independent Study Office serves as an open test center administering examinations by appointment on Saturday of the third week of each month. Subject to approval by the appropriate department in each case, the University will allow credit for satisfactory performance on the CLEP subject-matter examinations, provided that the examinations are taken prior to formal enrollment at Ohio University. The University does not award any credit for scores achieved on the CLEP General Examinations. Detailed information is available in a special publication which can be supplied on request.

For further information, contact:

Director, Independent Study
Ohio University
Tupper Hall 302
Athens OH 45701-2979
Telephone 614-593-2910

Regional Campuses

Delbert Meyer, *Dean*
Chillicothe Campus

James Newton, *Dean*
Eastern Campus

Joseph B. Tucker, *Interim Dean*
Lancaster Campus

Bill W. Dingus, *Dean*
Southern Campus

Craig D. Laubenthal, *Dean*
Zanesville Campus

In addition to the Athens campus, Ohio University has five campuses located in Chillicothe, Ironton, Lancaster, St. Clairsville, and Zanesville.

The primary objective of the regional campuses is to offer a broad program at the freshman and sophomore levels. Each location has a full two-year curriculum in the arts and sciences, business administration, and education, with selected courses in such specialized fields as engineering and fine arts. Students are eligible to receive the Associate in Arts or the Associate in Science degree after completing an approved two-year program of study. Available at some locations are specialized two-year programs leading to the Associate in Applied Business or Associate in Applied Science, designed as preparations for specific career opportunities in the immediate area. In selected areas, students pursue upper-level and graduate courses.

The admission policies for the regional campuses are the same as those of the Athens campus, in that Ohio high school graduates who can commute from home to one of the regional campuses will be admitted as regular full-time or special part-time students. This decision is based on the high school transcript, Scholastic Aptitude Test, or the American College Test (preferred). The regional campuses have no residence halls.

University College

Patricia Bayer Richard,
Dean

William L. Allen,
Associate Dean

Ted Bernard,
Assistant Dean

Richard K. Brackin,
Assistant to the Dean

Laura Cross Chapman,
Andrew H. Cinoman,
Tammy Kahrig,
Lora Munsell,
Counselors

University College is designed primarily to meet the needs of: (1) students who are exploring the University's options before selecting a major and a degree program; (2) students fulfilling University General Education Requirements; (3) special students; (4) associate's degree students on the Athens campus; and (5) students seeking the Bachelor of Specialized Studies or the Bachelor of Criminal Justice degree. The Criminal Justice Program is available to students who have earned associate's degrees in related disciplines. The college staff manages orientation/advisement programs, such as Precollege, that assist students in reviewing their interests, planning academic programs, and adjusting to University life.

University College Programs

Academic Advising and Counseling

No single activity of University College requires more time or is given a higher priority than advising and counseling. It is the responsibility of University College to inform students about academic options and to assist them in coming to decisions about how they can best use the University to promote their growth and development.

Entering students who identify a preferred area of study are admitted directly to the degree college of their choice and are assigned faculty advisors representing their major department. Exploratory students, or those who wish to investigate several academic options before settling into a major, are admitted to University College. An exploratory student is assigned both an academic advisor who is a full-time professor on the teaching faculty and a counselor from the University College staff to whom the student may turn for information and advice about choosing a major program of study and for an understanding of University regulations. Associate's degree, specialized studies, and special students also are assigned University College counselors who help them plan an appropriate program. In addition, students in all colleges may seek out counseling in University College when their questions touch on University-wide issues or University College programs.

Students in the University College are encouraged at entry to follow the requirements of degree programs. Students with tentative majors should refer to those requirements as outlined elsewhere in this catalog. In addition, the University College expects its students to be thoroughly familiar with the Academic Policies and Procedures section of this catalog.

All first-year students, regardless of intended major or college of entry, are required to meet the University General Education Requirements for freshmen. This includes proficiency in English composition and in basic quantitative skills.

To assist students in meeting these requirements, a series of placement examinations in reading, writing, and mathematics is required of all entering students. These examinations are administered each quarter as an integral part of the new student orientation program.

During the new student orientation program each quarter, with the placement test results as an aid, the University College staff will assist each student in selecting appropriate first-quarter courses, as well as the appropriate entry level for each course. A full-time schedule covered by the regular fee is between 11 and 20 quarter hours, with 16 hours being the average.

Declaring a Major

University College exploratory students are required either to declare a major and transfer to another college by the time they earn 75 credit hours, or to file a Statement of Academic Intent in the University College office that outlines their plans for qualifying to enter a major within the next three quarters. This policy has been instituted because all majors in the University require students to complete residency hours, and many require up to two years of direct study. Exploratory students still enrolled in University College at 115 credit hours will not be permitted to register for classes until they have been accepted in a degree-granting program. Exceptions to this rule may be approved by the dean of University College.

General Education

In 1979 the faculty of Ohio University adopted a comprehensive General Education Program required of all baccalaureate degree students. University College is responsible for coordinating the various facets of this program including providing administrative support for the English Composition Advisory Council and the University Academic Advising Council. The goal of these activities is to ensure that all undergraduate students participate in a common curriculum, as well as fulfilling the specific requirements of their individual colleges and major fields of study.

Precollege Orientation

Each year during July, August, and September, University College conducts a Precollege Orientation Program designed to acquaint new students and their parents with the programs of the University. Students meet with faculty, staff, and peer advisors for assistance in planning their academic programs. Precollege results in a completed schedule and registration for each student. Orientation programs are also held prior to the winter, spring, and summer quarters for new students, transfer students, and special students.

Freshman Interdisciplinary Course

Each year University College sponsors a special interdisciplinary course for new students, entitled "The University Experience" (UC 115). The course is designed to help first-quarter students adjust to the new experiences of University life. Topics covered include University resources, academic improvement skills, time management, degree requirements, values clarification, goal setting, academic major selection, and career planning.

University Professor Program

To acknowledge outstanding undergraduate teaching, students of Ohio University each year select six University Professors. University Professors are full-time faculty who have demonstrated noteworthy teaching ability and effective insight into educational processes.

Upon selection by the student University Professor Selection Committee and final appointment by the provost, each professor is granted a release from part of his or her teaching duties and \$2,000 for educational support or professional development. The professor uses this opportunity to teach at least two classes of his or her own choosing.

At the present time this program is limited to the Athens campus.

The University Professor Selection Committee consists of student representatives from each undergraduate college.

The selection procedure has three parts:

- 1 Campus-wide nominations by ballot of outstanding full-time professors. This occurs early in the academic year.
- 2 Selection of the top nominees as a result of committee examination and class visitation during winter quarter.
- 3 Official appointment by the provost after consultation with the respective department chairs and deans.

Faculty members chosen as University Professors are ineligible to be reconsidered for the award for a period of three years. Many faculty have been selected as a University Professor more than once. Faculty selected for the fifth time are awarded the title on a permanent basis, teach University Professor courses when convenient, and serve in an advisory capacity to the dean of University College on issues relating to promoting teaching excellence at the University.

College Adjustment Program (CAP)

Since 1979 Ohio University and the U.S. Department of Education* have supported the College Adjustment Program (CAP) at the Academic Advancement Center. Serving more than 300 students each year, Project CAP has a strong record of enabling qualified students to adjust to the academic demands of college within an atmosphere of encouragement and guidance.

Goals and Objectives The goal of Project CAP is to retain and graduate participating students from Ohio University. All activities and services included in CAP focus on that goal. To further long-term academic success, classwork and individual consultation help to develop basic skills. In addition, careful planning of course selections promotes academic success. For short-term academic support, CAP provides private tutoring free of charge. For nonacademic concerns, such as financial, personal, and interpersonal problems, and career and major choice, students may consult a staff counselor.

Qualifications Acceptance into Project CAP is based on the following criteria:

- 1 Educational need, based on ACT or SAT scores as well as rank in high school class.
- 2 First generation college student, meaning neither parent has earned a four year college degree.*
- 3 Low income status, determined by 150% of federal poverty levels. Eligibility for financial aid is a strong indicator.†
- 4 U.S. citizenship or permanent residency.
- 5 Less than 60 credit hours earned (at Ohio University or other institution).
- 6 Timely submission of application materials.

Eligibility for CAP is enhanced if a handicapping condition (including a learning disability) is verified by the Ohio University Office of Affirmative Action.

*Funded by a Student Support Services grant or the TRIO Programs, United States Department of Education.

†A small number of students may be accepted who qualify based on either criterion 2 or 3, but not both.

Features Project CAP assumes that participating students are serious about the pursuit of a college education. CAP expects them to strive for excellence, as demonstrated through class attendance, completion of academic work, consultation with instructors, use of provided services, and maintenance of a positive and responsible attitude.

In turn, Project CAP assists students through the following features:

Guaranteed enrollment in the study skills and reading improvement classes.

Unlimited individualized assistance on basic skill improvement.

Free, private tutoring in any enrolled course.

Special CAP advisement for course selection.

Informal residence hall visitations by student advisors.

Midterm performance evaluation in all classes.

Personal, vocational, and financial counseling.

Special University retention review.

New students admitted to Ohio University who are identified as potentially eligible for CAP will receive information on the program prior to the University's orientation period. Already enrolled students with fewer than 60 hours earned may also apply.

Students may decide to leave Project CAP during any quarter. They are encouraged to discuss their plans with the CAP counselor, however, to consider various aspects of that decision. Most students choose to remain in CAP until the senior year.

Questions may be directed to the Academic Advancement Center, Alden Library, 593-2644.

Degrees Offered

Bachelor of Criminal Justice

(Major code #ND2209)

The upper-division Criminal Justice Program is designed specifically for students who have previously completed an associate's degree program in an area related to criminal justice, such as law enforcement, corrections technology, or police administration.

Students who hold such degrees from technical or community colleges or from a regional campus of Ohio University are able to enter directly into the Criminal Justice Program and complete the baccalaureate degree by completing a minimum of 96 additional hours of Ohio University work.

This program offers students with technical education backgrounds the opportunity to broaden their exposure to liberal higher education, while acquiring the necessary specialization to qualify for careers in such fields as parole and probation, forensic science, adult and juvenile corrections, and police administration. Criminal justice students also may prepare for law school or for further study in graduate or professional schools.

The flexible, interdisciplinary curriculum is composed of a broad range of courses from the social and behavioral sciences, humanities, natural sciences, and professional disciplines, all of which make a contribution to the complex field of criminal justice. Students also have the opportunity to design individualized programs of study to a significant degree with elective courses which relate to their career goals.

To enter the Criminal Justice Program, a student must complete a degree application form in addition to the application to the University and submit a college transcript showing that he or she has completed an associate's degree in an appropriate field. Upon admission, the student will be assigned a faculty advisor who will assist in designing a program of study.

Degree requirements are as follows:

- 1 A total of 96 credit hours of Ohio University work, beyond a minimum of 96 hours earned in an acceptable associate's degree program. (Refer to Transfer Module in the Admissions section of this catalog.)
- 2 Of the 96 hours in the upper-division criminal justice curriculum, 45 hours must be at the 300 level or above.
- 3 Within the total 192 hours, students must complete the General Education Requirements (Tier I, II, III). Some courses taken to complete the associate's degree may be equivalent to courses that fulfill these requirements.
- 4 All students must complete no fewer than 12 courses from within the following core areas:

Area I: Basic skills (Choose three courses, one from A, B, and C)—(A) ENG 305J, ENG 308J, MGT 325J; (B) INCO 215, 304, 410, 420; (C) MATH 250B, PSY 121.

Area II: Social and political systems (Choose three courses, one each from A, B, and C—(A) AAS 254, 370, HIST 315B, SOC 329, 470; (B) POLS 409, SOC 362, 466; (C) POLS 306, SOC 309, SW 309.

Area III: Human behavior (Choose three courses, at least one from A and at least one from B. Do not take both SOC 210 and PSY 336)—(A) AAS 440, PSY 233, PSY 336 or SOC 210, SOC 211, SW 380; (B) BIOS 390H, PSY 332, 337, SOC 361, 363.

Area IV: Organizational skills and management (Choose three courses, at least one from A and at least one from B. Do not take both CS 120 and MIS 100)—(A) ACCT 201, CS 120 or MIS 100, HRM 420, MGT 300, POLS 412; (B) BUSL 255, 356, HRM 425, MGT 340, POLS 410.

The remaining hours beyond the core requirement will be chosen, in consultation with a faculty advisor, on the basis of the student's educational goals and career interests. For qualified students without prior professional experience in criminal justice, internship and field experience programs may be arranged.

Note: Courses taken to complete the associate's degree cannot additionally fulfill core requirements for the baccalaureate degree.

Bachelor of Specialized Studies*

(Major code #ND1112)

The Bachelor of Specialized Studies Program provides an opportunity for undergraduate students at Ohio University to design their own area of concentration. The student with high motivation, an exceptional background, or an unusual combination of talents and interests may find this degree program useful in attaining his or her goals. The program permits the student to combine available University resources to create a unique field of study not currently available in the curriculum offerings.

Students seeking to enter graduate school or one of the established professions may find that established majors may be more useful to them simply because the traditional degrees have greater recognition in the world and more readily suggest the nature of their academic accomplishments to others. The Bachelor of Specialized Studies degree program is an acknowledgment that the existing degree programs, as varied as they are at Ohio University, cannot satisfy the legitimate educational requirements of all students. The Specialized Studies Program provides the means by which individual students may, with the help of a University College counselor or a student services counselor on a regional campus, determine the structure of the degree program.

To enter the Specialized Studies Program, the student must complete an application form, available in the University College office or at one of the regional campuses, and have the completed application reviewed by a member of the University College staff. Final admission to the Specialized Studies Program is granted only upon review of the application by the Bachelor of Specialized Studies Review Committee composed of faculty, administrators, and students. The Review Committee meets once each quarter to consider applications.

Bachelor of Specialized Studies students may have established academic minor designations certified. If a student elects to pursue a minor, the intent must be indicated at the time the Bachelor of

Specialized Studies proposal is submitted. Courses taken to meet the minor requirement must be elective courses (and must not be included in the Area of Concentration).

The student must meet the following criteria before submitting an application to the Specialized Studies Program for consideration:

- 1 Current enrollment with regular student status;
- 2 Achievement of sophomore rank;
- 3 Minimum 2.0 accumulative g.p.a.

A student must meet the following requirements to graduate with a Bachelor of Specialized Studies:

- 1 Earn 192 credit hours, at least 90 of which must be in junior or senior-level courses (courses with catalog numbers at the 300 level or above as shown in the Undergraduate Catalog).
- 2 Earn a minimum of a 2.0 accumulative g.p.a. based on the 192 credit hours.
- 3 Complete no fewer than 45 credit hours of Ohio University credit (the degree residence requirement) after being admitted to the Specialized Studies Program. This excludes any transfer, transient, Course Credit by Examination, Independent Study coursework, etc., for which the initial registration was completed prior to application to the Specialized Studies Program.
- 4 Complete a minimum of 45 credit hours in a self-selected area of concentration that has been approved by the Bachelor of Specialized Studies Review Committee. The Area of Concentration may include completed courses as well as current registration and will include courses to be completed after admission to the degree program. The 45-hour concentration area is designed by the student with the approval of the committee. The courses included in the planned concentration area become requirements for graduation subject to change only by prior permission from a University College counselor and in some cases the Bachelor of Specialized Studies Review Committee. The prospective Specialized Studies student is advised to work closely with a faculty or resource person in the field of interest to elicit suggestions for constructing an appropriate program of study.
- 5 Complete the University General Education Requirements.
- 6 Satisfactorily complete the minimum of 48 credit hours of Ohio University coursework to satisfy the University residence requirement.

Applications may be submitted at any time during the quarter. The deadlines to submit applications and have current credit hours included as part of the degree residence requirement are as follows:

Quarter	Deadline
Fall 1994-95	October 14, 1994
Winter 1994-95	February 4, 1995
Spring 1994-95	April 28, 1995
Summer 1994-95	July 14, 1995

*Known as the Bachelor of General Studies degree prior to September 1991.

Associate Degrees

General Requirements

The minimum requirement for an associate's degree is the completion of 96 credits with a 2.0 accumulative g.p.a. at graduation. A maximum of 24 credits earned through the Experiential Learning Program may be applied to any associate's degree. The residence requirement for associate's degrees is detailed in the Graduation Requirements section of this catalog. Application for the degree is made at the Office of Student Records at the time announced for all degree candidates; the application fee is \$8. Additional requirements for each degree follow this section.

Information about all associate's degree programs is available through either the regional campuses or University College. Students who plan to pursue an associate's degree program must consult with the director of the specific program and/or with a member of the counseling staff of the regional campus or University College.

The student's academic records should be in University College at the time he or she applies for and receives the associate's degree. If a student plans to apply for and receive both an associate's degree and a baccalaureate degree simultaneously, or earn a baccalaureate degree after the associate's degree, the student's academic records will reside in the college responsible for the baccalaureate degree. It is the student's responsibility to ensure that he or she is enrolled in the appropriate college.

Application Toward Bachelor's Degree

Credit earned while enrolled in an Ohio University associate's degree program will be applied toward an Ohio University baccalaureate degree program; however, this shift may involve more than two additional years to complete the four-year requirements for two reasons: (1) prerequisite courses may not have been completed and (2) technical courses will apply only as elective courses in most four-year degree programs.

If pursuing an associate's degree program is intended as the first step toward a baccalaureate degree, the student should consult the Ohio University General Education Requirements appropriate for his or her quarter of entry. These requirements are part of the program of study for all baccalaureate students.

Associate's Degree After a Baccalaureate Degree

A student who has already earned a baccalaureate degree may pursue an Associate in Applied Business degree or Associate in Applied Science degree if the two-year degree is in a field other than that in which the baccalaureate degree was earned. It is also permissible for a student to pursue an Associate in Individualized Studies degree after earning a baccalaureate degree depending on the rationale for doing so and the desired area of concentration. The Associate in Arts or the Associate in Science degree is not an appropriate degree objective for one who has already earned a baccalaureate degree.

Associate in Applied Business Degree

Available in accounting technology (Lancaster), business management technology (Chillicothe and Lancaster), computer science technology (Lancaster), office management technology (Lancaster), and office administration technology (Chillicothe). See details under the specific program.

Associate in Applied Science Degree

Available in aviation technology (Athens), computer science technology (Lancaster), electronics technology (Lancaster), hazardous materials technology (Chillicothe), human services technology (Chillicothe), industrial technology with a design or manufacturing emphasis (Lancaster), law enforcement technology (Chillicothe), nursing (Chillicothe and Zanesville), radio-television (Southern at Ironton, Zanesville), and security/safety technology (Chillicothe). See details under specific programs.

Associate in Arts/Associate in Science Degrees

(Major codes #AA1101, #AA1110, AS1104)

Available on all campuses. Each degree requires a minimum of 96 credit hours.

The A.A. degree may emphasize either arts/humanities or social sciences. For the arts/humanities emphasis, the A.A. degree must include 30 credits of arts/humanities, 15 credits of social sciences, and 15 credits of natural sciences/applied sciences/quantitative skills. For the social sciences emphasis, the A.A. degree must include 30 credits of social sciences with 15 credits in each of the other two areas. The A.S. degree must include 30 credits of natural sciences/applied sciences/quantitative skills, 15 credits of social sciences, and 15 credits of arts/humanities. Technical courses count only as electives for both the A.A. and A.S. degrees.

Students must complete the Freshman English and Quantitative Skills components of Tier I of the University General Education Requirement as part of the required areas mentioned above. The remaining 36 credits may be of the student's own choosing. A maximum of 24 credits earned through the Experiential Learning Program may be applied to the A.A. or A.S. degree. At least 30 of the student's total credits earned toward the A.A. or A.S. must be Ohio University credits.

Students are not permitted to earn both the A.A. and A.S. degrees. In addition, students who have previously earned the A.I.S. degree are not permitted to earn either the A.A. or A.S. degree.

Following are the three areas from which a student may select courses for the A.A. or A.S. degree. Students must work with regional campus student service directors or University College counselors on the Athens campus to ensure that all requirements are fulfilled. Students planning to transfer from Ohio University to another institution are advised to complete the Transfer Module as part of their A.A. or A.S. degree. See the Admissions section of this catalog.

The only exception to these requirements is the specific curriculum in child development (Athens campus only) which leads to the A.A. degree. This curriculum is described below, under its specific title.

Arts and Humanities

African American Studies
110, 150, 210, 211, 250,
310, 350, 355, 356

Art 100

Art History

Classical Archaeology

Classical Languages
(Latin, Greek)

Classical Languages in
English

Comparative Arts

Dance 150, 170, 351-3,
370, 471-3

English (except 150)

Film 201, 202, 203

Foreign Languages
(Arabic, Chinese, French,
German, Indonesian/
Malaysian, Italian,
Japanese, Russian,
Spanish, Swahili)

Foreign Literature in
Translation

History 121, 122, 123,
314A-F, 328, 329A-C,
330, 331, 351, 352,
353A-8, 354, 356A-C,
357, 370, 389

Humanities

Interpersonal
Communication 101

Music 100, 120, 124,
125, 150, 321-3, 421A-F,
427, 428

Philosophy (except 120)

Theater 150, 170, 171,
270, 271, 272

Women's Studies

Associate in Individualized Studies Degree

(Major code #ND5508)

Available on the Athens, Chillicothe, Lancaster, and Zanesville campuses. A student who wishes to pursue a two-year program of study in a field other than those available through one of the other associate's degree options may design his or her own program of study to meet particular goals through the self-designed Associate in Individualized Studies degree program.

To be admitted to the program, the student must complete an application, available in the University College office or at one of the regional campuses, and schedule an interview with a University College or regional campus counselor. Final admission to the program is granted only upon review of the application by the A.I.S. Review Committee. Note: Students who have previously earned an associate's degree are not permitted to earn the A.I.S. degree.

Although there are no specific course or academic area requirements, the application must outline the student's intended course of study, and it must include a proposed area of concentration.

The student must indicate two resource (advisory) faculty and/or staff members who have been consulted in the preparation of his or her program, one of whom must be from the student's area of concentration.

To submit an application for admission to the program, the student must currently be an enrolled regular student. Requirements for the Associate in Individualized Studies degree are:

- 1 96 quarter credits.
- 2 2.0 accumulative g.p.a.
- 3 No fewer than 30 credits of work to be taken after admission to the program.
- 4 Completion of Tier I freshman-level requirements in English composition and quantitative skills.
- 5 Completion of an approved area of concentration of at least 30 credits.

Although applications may be submitted at any time during the quarter, the same deadlines established for the Bachelor of Specialized Studies Program must be met to have current hours included as part of the 30 credits needed after admission to the Associate in Individualized Studies degree program.

A maximum of 24 credits earned through the Experiential Learning Program may be applied to the A.I.S. degree.

Natural Science, Applied Science, and Quantitative Skills

Anthropology 201, 492,
496

Astronomy

Biological Sciences

Biology 101

Chemical Engineering
331

Chemistry (except 115)

Computer Science

Engineering 280, 320,
350, 470

Food and Nutrition 128

Geography 101, 201,
260, 302, 303, 411

Geological Sciences

Health 202

Hearing and Speech
Sciences 108

Industrial Technology
110

Mathematics (except
101, 102)

Microbiology

Philosophy 120

Physical Science

Physics

Plant Biology

Psychology 121, 212,
226, 314

Social Science

African-American Studies
(except those courses
listed in Arts and
Humanities)

Anthropology (except
201, 492, 496)

Business Law 255, 370,
442, 475

Child Development and
Family Life 160

Economics

Geography (except 101,
201, 260, 302, 303, 411)

History (except those
courses listed in Arts and
Humanities)

International Studies
103, 113, 121

Interpersonal
Communication 351,
352, 353

Journalism 105

Linguistics

Management 200

Political Science

Psychology (except 121,
212, 226, 314)

Social Work

Sociology

Telecommunications 105

Programs of Study

Accounting Technology (A.A.B.)

(Major code #AA5002)

Ohio University-Lancaster offers a two-year program for accounting technicians leading to the Associate in Applied Business degree. Requirements for the degree include accounting technology career courses, related basic courses, and general education courses. This program prepares the student to enter junior accountant positions in business, industry, or government.

First Year

ATCH 103	4	ATCH 104	4	ATCH 105	4
ECON 103	4	MATH 113	5	ATCH 203	4
ENG 151	5	ECON 104	4	PSY 101	5
OMT 121	4	CTCH 125	4	INCO 103	4
	17		17		17

Second Year

ATCH 204	4	ATCH 225	4	ATCH 209	4
ATCH 205	4	ATCH 206	4	ATCH 241	4
BUSL 255	4	BMT 140	4	OMT 262	4
BMT 110	4	Elective	3	Elective	3
	16		15		15

Majors must complete Tier I (quantitative and freshman English) requirements.

Aviation Technology (A.A.S.)

(Major code #AA7250)

The University College and the Department of Avionics offer an Associate in Applied Science in aviation technology. Completion of this program will prepare students for career opportunities in commercial aviation as FAA certified pilots and air crew members as well as positions in related aerospace industries. Interested students should contact the Department of Avionics, located at the airport.

All students must receive a grade of C (2.0) or better in all ground school classes that require an FAA written test in order to progress to a flight course.

Aviation is a highly skilled profession. Therefore, all students enrolled in an aviation flight course must receive a B- or higher to continue in the Airway Science Program.

The maximum time allowed for one flight course is two quarters.

First Year

AVN 110	4	AVN 240	4	AVN 350	4
IT 220	3	AVN 320	2	AVN 340	4
ENG 151	5	ECON 103	4	ECON 104	4
MATH 115	4	PSY 101	5	GEOG 101	5
	16		15		17

Second Year

AVN 343	4	AVN 400	4	AVN 425	6
AVN 310	4	INCO 103	4	AVN 440	4
GEOG 302	5	GEOG 304	4	GEOG 405	4
Elective	4	POLS 101	4	Elective	4
	17		16		18

Majors must complete Tier I (quantitative and freshman English) requirements. Course offerings may vary from quarter to quarter, therefore the sequence may be adjusted to fulfill the requirements.

Business Management Technology (A.A.B.)

(Major code #AA5006)

Ohio University-Chillicothe and Ohio University-Lancaster offer a two-year program of study in business management leading to the Associate in Applied Business degree. Requirements for the degree include business management technology courses, related basic courses, and general education courses. This program prepares the student to assume paraprofessional positions in business, industry, and government.

First Year

ATCH 103	3	ATCH 104	3	ATCH 105	3
BMT 110	4	BMT 150	3	BMT Elective	3-4
BMT 120*	4	ECON 103	4	ECON 104	4
BMT 140	4	ENG 151	5	OAT/OMT 262	4
				PSY 101	5
	15		15		19-20

Second Year

BMT 210	4	BMT 200	4	BMT 270	3
				or CTCH 125	4
BMT 220	4	BMT 230	3	BMT 280	4
BMT 250	3	BMT 275	4	BMT 285	3
BUSL 255	4	POLS 101	4	BMT 288	4
INCO 103	4	Tier I Math	4-5	OAT/OMT 267	3-4
	19		19-20		17-18

*Not required for Lancaster students. MATH 101 or equivalent is a prerequisite.

A real estate option is available through the Business Management Technology Program by substitution of the following courses:

REAL 101	Principles and Practices	4
REAL 103	Real Estate Law	4
REAL 102	Brokerage	4
REAL 201	Real Estate Appraising I	4
REAL 204	Real Estate Finance	4
REAL 221	Real Estate Special Topics	4

Courses not required for the real estate option are:

BMT 150, 221, 250, 280, and elective; and OAT/OMT 262, 267

Majors must complete Tier I (quantitative and freshman English) requirements.

Child Development (A.A.)

(Major code #AA1106)

University College and the School of Human and Consumer Sciences offer an Associate in Arts in child development. The program meets the requirements for prekindergarten associate teacher certification in Ohio. Interested students should consult with the director of human and consumer sciences for additional information, including employment opportunities and continuation into the baccalaureate degree program.

General Education Requirements

Tier I: Quantitative and Freshman English

Tier II: 30 hours from an approved list of courses in the following areas:

Applied Science and Technology

Humanities and Fine Arts

Natural Sciences and Mathematics

Social Sciences

Third World Cultures

Students are required to take at least four hours in four of the five distribution areas.

Technical Requirements

EDEL 321	Children's Literature	3
EDM 480	Intro to Educational Media	4
EDSP 270	Classroom Mgt. of Child. with Behavior Prob.	3
EDSP 271	Intro to Educ. of Except. Children and Youth	3
HCCF 160	Intro to Child Development	4
HCCF 299	Soph. Practicum	5
HCCF 361	Prin. of Preschool Guidance	4
HCCF 363	Creative Exper. with Preschool Children	4
HCCF 364	Premath and Science with Young Children	4
HCCF 365	Infant Education	4
HCCF 366	Practicum in Early Childhood Education*	6
HCCF 371	Family Development	3
HCFN 128	Introduction to Nutrition	4
HLTH 227	First Aid	3
HSS 108	Intro to Speech Disorders	5
MUS 262	Mus. in Early Childhood	3

*HCCF 366—Practicum in Early Childhood Education is a half-day student teaching experience. The course meets five days per week. Students must sign up one year in advance.

Computer Science Technology (A.A.B./A.A.S)

Ohio University-Lancaster offers a two-year program leading to the associate's degree in computer science technology. There are two options available—applied business or applied science. Interested students should consult with the director of Computer Science Technology for additional information, including employment opportunities and continuation into the baccalaureate degree program.

Required General Education Courses

ENG 151	Fresh. Writing and Rhet.	5
INCO 103	Pub. Spkg.	4
PHIL 120	Principles of Reasoning	4
PSY 101	Gen. Psych.	5
SOC 101	Intro to Sociology	5

Technical Requirements

CTCH 125	Intro to Business Data Processing	4
CTCH 135	Basic Programming I	5
CTCH 235	Basic Programming II	5
CTCH 223A	COBOL Programming I	5
CTCH 223B	COBOL Programming II	5
CTCH 224	Project in Application Programming	5
CTCH 238	Assembler Programming	5
CTCH 280	Operating Sys.	4
CTCH 290	Studies in Computer Science	1-5

Business Option

(Major code #AA5010)

ACCT 201	Financial Acct.	4
ACCT 202	Managerial Acct.	4
BUSL 255	Law and Society	4
CTCH 291A	Systems Analysis I	4
CTCH 291B	Systems Analysis II	4
CTCH 285	Database Management	5
ECON 103	Prin. of Microeconomics	4
MATH 163A	Intro to Calc.	4
MATH 250B	Finite Math	4
QBA 201	Intro to Bus. Stat.	4

Science Option

(Major code #AA5009)

	CTCH Electives	12-15
MATH 263A	Analytic Geom. and Calc.	4
MATH 263B	Analytic Geom. and Calc.	4
MATH 263C	Analytic Geom. and Calc.	4
MATH 263D	Analytic Geom. and Calc.	4
	Nat. Sci. Electives	8
PHYS 251	General Physics	5
PHYS 252	General Physics	5

Majors must complete Tier I (quantitative and freshman English) requirements.

Electronics Technology (A.A.S.)

(Major code #AA5318)

Ohio University-Lancaster offers a two-year program for electronics technicians leading to the Associate in Applied Science degree. Requirements for the degree include electronics technology career courses, related basic courses, and general education courses. This program prepares the student for positions in industrial maintenance, production or service industries, assisting the engineer, or working as part of an engineering team to design, test, install, or maintain electronics and computer systems.

First Year

ETCH 110	4	ETCH 111	4	ETCH 112	4
IT 101	3	MATH 115/118	4	ETCH 120	4
IT 115	3	PSY 101	5	INCO 103	4
MATH 113	5	Elective	4	MATH 163A or 263A	4
	15		17		16

Second Year

ETCH 220	4	ETCH 221A	4	ENG 151	5
ETCH 236A	4	ETCH 236B	4	ETCH 221B	4
ETCH 289	4	ETCH 260	4	ETCH 228	4
PHYS 20*	5	PHYS 202	5	BA 101	4
Elective	1-3	Elective	1-3	or ECON 103	4
	18-20		18-20		17

Majors must complete Tier I (quantitative and freshman English) requirements.

Hazardous Materials Technology (A.A.S.)

(Major code #AA5004)

Ohio University-Chillicothe offers a two-year degree program leading to an Associate in Applied Science in hazardous materials technology. The program is designed for those men and women interested in the challenging and expanding career options available in hazardous waste management, control, and remediation. The goal of this program is to further the student's knowledge on the types and effects of various hazardous substances, as well as to provide clarity on the regulations, standards, and guidelines established for proper waste disposal.

Students graduating with the A.A.S. in hazardous materials technology would typically enter the workforce as field technicians, emergency responders, environmental health specialists, or safety technologists. In order to broaden and improve their employment opportunities, students are encouraged to further their education in such bachelor degree programs as industrial hygiene, environmental engineering technology, or safety sciences.

First Year

HMT 100	4	HMT 120	3	HMT 140	4
HMT 110	4	HMT 130	3	HMT 150	3
CHEM 121	4	MATH 113	5	ENG 151	5
INCO 103	4	CHEM 122	4	CHEM 123	4
		HLTH 227	3		
	16		18		16

Second Year

HMT 200	4	HMT 220	3	HMT 240	4
HMT 210	4	HMT 230	3	PHYS 201	5
CHEM 301	3	LET 250	3	BIOS 131	5
BIOL 101	5	INCO 304	4	TECH 100*	4
		BIOS 130	5		
	16		18		18

Majors must complete Tier I (quantitative and freshman English) requirements.

*TECH 100 Ethics and Standards of Behavior (4). The discussion of human values, attitudes, and morality from everyday living to the work setting. Examines moral reasoning and ethical standards of conduct.

Human Services Technology (A.A.S.)

(Major code #AA5201)

Ohio University-Chillicothe offers a two-year program leading to an Associate in Applied Science in human services technology. The program prepares students for employment in the fields of mental health, social services, child care, corrections, and other human service related areas.

First Year

INCO 104 or approved INCO substitute	4	ENG 151	5	HST 125 or HST 290	3-4
HST 102	3	HST 290	3-4	HST 170	4
HST 110	3	POLS 306 or approved POLS substitute	4	PSY 332	4
HST 290	3	BIOS 103 or PBIO 103	4-5	SOC 101	5
PSY 101	5				
	17-18		16-18		16-17

Second Year

HST 150	3	HST 151	4	HST 200	3
HST 171	3	HST 220	2	HST 250	2
HST 210	2	HST 222	1	HST 255	1
HST 211	1	PSY 233		HST 152	4
HST 275	3	or 273	4	BIOS 382	3
Elective (or MATH 101 if needed)	3-4	Tier I Quantitative	4-5	Soc Sci Elective	4-5
	15-16		15-16		17-18

Majors must complete Tier I (quantitative and freshman English) requirements.

Industrial Technology (A.A.S.)

Ohio University-Lancaster offers a two-year program for industrial technicians leading to the Associate in Applied Science degree. Students may choose an area of specialization by selecting either the design or manufacturing option. A total of 73-75 hours of courses is common to both options.

The design option, requiring an additional 29 hours, prepares the student for various design-related positions, such as design technician, product design, engineering support, or technical sales.

The manufacturing option requires an additional 23-25 hours, and students are prepared for positions in production industries that may include technician, quality specialist, process control specialist, maintenance supervisor, foreman, and supervisor.

Graduates may also choose to finish the four-year industrial technology degree in Athens.

Descriptions of the design technology (DTCH) and manufacturing technology (MTCH) courses are listed alphabetically in the Courses of Instruction section under Design Technology and Manufacturing Technology.

Design Option

(Major code #AA5320)

First Year

CHEM 121	4	CHEM 122	4	DTCH 150	3
IT 101	3	INCO 103	4	IT 121	3
IT 115	4	IT 102	3	MATH 163A	4
MATH 113	5	IT 117	3	MATH 290	3
		MATH 115	4	PHYS 201	5
	16		18		18

Second Year

DTCH 200	4	DTCH 210	4	DTCH 220	3
ETCH 110	5	DTCH 230	4	DTCH 250	4
MTCH 220	3	DTCH 240	4	PHYS 101	5
PHYS 202	5	ENG 151	5	Hum./soc. sci. elec.	3-5
Tech. elec.	3				15-17
16		17			

Manufacturing Option**(Major code #AA5319)****First Year**

CHEM 121	4	CHEM 122	4	IT 102	3
IT 101	3	ENG 151	5	MATH 163A	4
IT 115	4	IT 117	3	MTCH 261	3
MATH 113	5	MATH 115	4	MTCH 290	3
				PHYS 201	5
16		16			18

Second Year

ETCH 110	5	INCO 103	4	BA 101	4
BMT 150	3	MTCH 263	3	MTCH 264	3
MTCH 220	3	MTCH 221	3	PSY 101	5
MTCH 262	3	MTCH 299	1-3	Tech. elec.	3
PHYS 202	5	Hum./soc. sci. elec.	3-5		
19		14-18			15

Majors must complete Tier I (quantitative and freshman English) requirements.

Law Enforcement Technology (A.A.S.)**(Major code #AA5505)**

Ohio University-Chillicothe offers a two-year program leading to an Associate in Applied Science in law enforcement technology. This program prepares the student for employment in law enforcement by providing academic preparation for the contemporary officer. Career opportunities may be available in such areas as state highway patrol, local and county law enforcement agencies, corrections, juvenile authorities, and as probation officers. Upon completion of this program, interested students may continue in the Bachelor of Criminal Justice Program on the Athens campus. Students may also work toward the Athens-based four-year degree in forensic chemistry. Additional information is available from the Law Enforcement Technology Program director or the director of the Criminal Justice Program.

First Year

ENG 151	5	HLTH 227	3	HSC 132	1
HSC 107	1	HSC 113	1	LET 140	3
LET 100	3	INCO 101	4	LET 150	3
LET 110	3	LET 120	3	PSY 101	5
SOC 101	5	LET 130	3	SOC 201	4
		POLS 102	4		
17		18			16

Second Year

ART 191	4	EDCE 410	3	HSM 107	1
HSM 104	1	HSM 105	1	LET 260	3
LET 200	4	LET 230	3	LET 270	3
LET 210	3	LET 240	3	LET 280	3
LET 220	3	LET 250	3	POLS 320	4
		SOC 362	4		
15		17			14

Majors must complete Tier I (quantitative and freshman English) requirements.

Nursing (A.A.S.)**(Major code #ND2341)**

Ohio University-Zanesville and Ohio University-Chillicothe offer a two-year nursing program. A student who completes the program will receive an Associate in Applied Science in nursing and will be eligible to write the National Council Licensure Examination for Registered Nurse. The program is accredited by the National League for Nursing. All nursing courses (labeled NURS) must be completed with a grade of C or better.

Individuals interested in the Associate Degree Nursing Program must be high school graduates or hold a certificate of high school equivalency (GED). A high school 2.5 g.p.a. on a 4-point scale or established college g.p.a. is expected. To be reviewed by the selection committee, the applicant must have completed courses in biology, algebra, and chemistry at the high school or college level with a grade of C or better in each course. All students are required to take the National League of Nursing Pre-Admission Examination-RN before admission to the nursing program. A "score" composite of 100 or greater is expected. At least the 30th percentile in each "AD" category (verbal, math, and science) is also expected.

First Year

CHEM 121	4	HCFN 128	4	NURS 103	7
NURS 100	1	NURS 102	7	MICR 201	4
NURS 101	7	BIOS 131	5	PSY 101	5
BIOS 130	5				
17		16			16

NURS 104, 7 credits, is to be taken during 4th quarter session between 1st and 2nd years.

Upon completion of NURS 104, students must have an accumulative g.p.a. of 2.0 or better in all required support courses.

ENG 151 must be taken prior to completion of the program.

Second Year

NURS 201	6	NURS 203	6	NURS 205	12
NURS 202	6	NURS 204	6	Elective*	3
Tier I		SOC 101	5	NURS 206	1
Quantitative	4-5				
16-17		17			16

The sequence of the freshman level support courses may not be altered; sophomore-level support courses may be altered with permission.

A minimum of 110 hours is required for completion.

*Recommended: Fine Arts, Humanities, Third World Cultures.

Majors must complete all Tier I (quantitative and freshman English) requirements.

Office Administration Technology (A.A.B.)

(Major code #AA5005)

The Chillicothe campus of Ohio University offers a two-year program leading to an Associate in Applied Business degree in office administration technology. This program prepares the student to enter top secretarial positions in business, industry, and the professions. The program incorporates the development of managerial skills.

Office Administration Technology (Chillicothe)

First Year

MATH 101		ENG 151	5	OAT 123	3
or Elective	3-5	OAT 122	3	OAT 172	3
OAT 121	3	OAT 226	3	OAT 239	3
OAT 131	3	OAT 252	4	PSY 101	5
OAT 225	3	Elective	3	Elective	3-4
OAT 231	3				
	15-17		18		17-18

Second Year

ATCH 103	4	ATCH 104	4	OAT 218	3
BUSL 255	4	MATH Tier I	4-5	OAT 267	3
INCO 103	4	OAT 248	3	OAT 278	3
OAT 258	3	OAT 262	4	OAT 250	2
		OAT 221	3	Elective	4
	15		18-19		15

Majors must complete all Tier I (quantitative and freshman English) requirements.

Office Management Technology (A.A.B.)

(Major code #AA5015)

The Lancaster campus of Ohio University offers a two-year program leading to an Associate in Applied Business in office management technology. This program is designed to train people desiring positions as professionals with knowledge in many phases of business. The program prepares a person to hold a variety of jobs such as administrative assistant, word processing specialist, and office manager.

The curriculum listed below is a sample plan only. Many other sequences will work.

First Year

ENG 151	5	BMT 101	4	OMT 262	4
OMT 121	4	OMT 110	4	OMT 171	4
OMT 130	4	OMT 122	4	OMT 231	4
Tier I Math	4-5	OMT 131	4	PSY 101	5
	17-18		16		17

Second Year

ATCH 103	4	ATCH 104	4	OMT 239	4
BUSL 255	4	INCO 103	4	OMT 267	4
CTCH 125	4	OMT 221	4	OMT 293	2
OMT 225	4	OMT 249	2-5	OMT 299	2-5
Elective	3-4	OMT 250	2	Elective	4-5
	19-20		16-19		16-20

Majors must complete Tier I (quantitative and freshman English) requirements.

Radio—Television (A.A.S.)

(Electronic Media, major code #AA5013)

Ohio University-Zanesville and Ohio University-Southern (Ironton) offer a two-year program of study leading to an A.A.S. in electronic media. The program is founded on the belief that through intensive, individualized instruction, in a hands-on atmosphere, a student can prepare in only two years for a beginning position in the electronic media (radio or TV stations, cable TV or production houses).

Along with those who want a production-intensive education, high school graduates who are not academically prepared to begin their college careers in the School of Telecommunications on the Athens campus can benefit from the associate program. The program presents students with the opportunity to sharpen their skills before relocating to the School of Telecommunications on the Athens campus. More than ninety percent of those students who complete the associate degree and then relocate to Athens secure a bachelor's degree. (A 3.0 R-TV g.p.a. is expected for relocation to Athens.) Others who complete the A.A.S. degree move immediately into communications positions.

The radio-TV studios feature the latest in multitrack audio recording, radio operations, and computerized video editing equipment. The state-of-the-art facilities, broadly based curriculum, small classes, and internships have proven invaluable for students who want to obtain a full view of the field of electronic media. The department is particularly proud of the fact that during enrollment at OU-Zanesville, nearly 75 percent of all students spend time as interns or part-time employees at area stations. Recent graduates are now working throughout the United States in the communication industry.

Suggested Sequence

First Year

English 153 or other		CS 120	3	POLS 101	
Tier I ENG	5	MATH 151 or other		or 102	4
INCO 103	4	Tier I MATH	4-5	SOC 101	
RTV 101	3	RTV 211	4	or PSY 101	5
Elective	4	TCOM 200A	4	RTV 122	4
				RTV 216	4
	17		15-16		17

Second Year

ENG 280	4	JOUR 350	4	ARTS and HUM	
ECON 103	4	RTV 257	4	Elective	4
RTV 289A or V	1	RTV 289A or V	1	RTV 214	
TCOM 206	4	Soc Sci Elective	4	or RTV 217	2
TCOM 308	4	Elective	3	RTV 289A or V	1
				TCOM 170	4
				Elective	4
	17		16		15

With approval of advisor, some courses can be taken out of sequence.

Majors must complete no less than 40 and no more than 48 of the 96 hour total in RTV, TCOM, and JOUR classes. Students may be required to enroll in additional courses if prerequisites have not been met.

Majors must complete Tier I (quantitative and freshman English) requirements

Security/Safety Technology (A.A.S.)

(Major code #AA5506)

Ohio University-Chillicothe offers a two-year degree program leading to an Associate in Applied Science in security/safety technology. This program prepares the students for employment in security by providing academic preparation for the contemporary officer. Career opportunities may be available in such areas as corporate, industrial, retail, and government security.

The Security/Safety Technology Program is designed for in-service security officers and preservice men and women interested in careers in security. The goal of this program is to further their knowledge of security so they are better prepared to obtain employment in this area and to help them qualify for promotion.

The security industry is currently one of the fastest growing industries in America. Security officers are now employed (and more will be employed in the future) by resorts, hospitals, airlines, government, retail companies, manufacturers, bus lines, trucking companies, housing authorities, colleges, public school systems, banks, and other industries.

First Year

ENG 151	5	INCO 101	4	EDCE 410	3
HLTH 227	3	LET 120	3	LET 260	3
SOC 101	5	LET 130	3	PSY 101	5
SST 101	3	POLS 101	4	SST 120	3
SST 110	3	SOC 362	4	SST 290	3-4
	19		18		17-18

Second Year

ATCH 103	4	ATCH 104	4	POLS 102	4
BUSL 255	4	BA 101	4	SST 230	3
LET 200	3	CS 120	3	SST 240	3
SST 201	3	SST 210	3	SST 250	3
		SST 220	3	SST 260	3
	14		17		16

Majors must complete all Tier I (quantitative and freshman English) requirements.

Reserve Officers Training Corps

The rationale for reserve officer training stems from a statement by the founders of this nation that we must "provide for the common defense." For young men and women who have the desire and talent to dedicate their time to the service of their country, there are many and varied rewards. Today, when science and technology are so much a part of the national defense, and the defense of this nation is so inextricably involved with world problems, our nation needs talented and well-trained officers in its military services. These services need the best leaders, managers, administrators, engineers, and scientists the nation's schools can produce to be officers with wide ranges of knowledge and skill. The Reserve Officers Training Corps, in agreement with universities and colleges, is designed to produce these types of men and women for the nation.

The Air Force ROTC Program at Ohio University is under the Aerospace Studies Department; the Army ROTC program is under the Military Science Program.

ROTC is divided into two phases: the basic course and the advanced course. The University offers a two-year and a four-year program.

Basic Course Requirements. In general, any undergraduate Ohio University student who is a United States citizen is eligible for enrollment in the basic courses. Students who are not United States citizens may be enrolled with special permission.

Advanced Course Requirements. To be eligible for the advanced course, a student must meet academic, physical, aptitude, and moral selection criteria; complete either the basic course on campus or the six-week summer camp/field training following the sophomore or junior year; and enlist in the reserve of the appropriate service. Upon graduation, Air Force ROTC cadets receive active duty commissions as second lieutenants. Army ROTC cadets, upon successful completion of the program, are commissioned as second lieutenants in the United States Army, the United States Army Reserve, or the Army National Guard. Students may be discharged from the reserve for reasons of academic failure, personal hardship, medical disqualification, or inaptitude.

Scholarships. One- through four-year scholarships are available on a competitive basis for qualified students. These scholarships pay costs of tuition, lab fees, and books. Additionally, recipients receive a tax-free subsistence allowance of \$100 monthly for the period the scholarship is in effect. All students in the advanced course receive subsistence allowances of \$100 per month and can qualify for scholarships of \$2,000 per year.

Summer Camp/Field Training Allowances. All travel expenses, board, living quarters, and uniforms are furnished, and the students are paid while attending summer camp/field training.

Uniforms and Equipment. Training equipment and complete uniforms are loaned to all ROTC students without cost.

Commissions. A student who successfully completes the ROTC advanced course and the requirements for a baccalaureate degree will be qualified for the tender of a commission as a second lieutenant in the United States Army or the United States Air Force.

Special Schooling. The ROTC Program encourages graduate study and may delay a call to active duty for up to four years for students enrolled in graduate-level study. Selected officers, after entrance on active duty, are sent to civilian universities or service technical institutes for graduate work leading to a master's degree or to a doctoral degree in specialized fields.

Aerospace Studies Program (Air Force ROTC)

The Aerospace Studies Program is designed to develop the attitudes and skills required of professional Air Force officers. The goal is to provide student cadets the background knowledge to become officers in the United States Air Force, while acquiring baccalaureate degrees in fields of their own choosing.

The curriculum during the first two years of the basic program (one credit hour per quarter) focuses on the doctrine, mission, and organization of the United States Air Force. It also includes studies of the development of air power and present concepts within the Air Force. Included are elements of national power, an overview of the Air Force, a study of democracy, and the actions of nations in their search for world peace.

Concurrently with these academic subjects, the student cadet will participate in leadership activities called "Leadership Lab." These activities will enable him or her to gain an insight into the dynamics of military leadership, as well as becoming familiar with Air Force customs and courtesies. There is no commitment during the first two years for non-scholarship cadets, and it is an excellent way for a student to look at the Air Force as a career. Students who wish to attend the class for academic credit need not participate in Leadership Lab. These "special students" are not considered officer candidates and are welcome as classroom space allows. The entire basic program consists of six quarters of study and is entitled "General Military Course," or GMC:

The advanced curriculum, entitled the "Professional Officer Course" or POC (three credit hours per quarter), is specifically designed to prepare the student cadet for active duty as a commissioned officer. Studies include military leadership and principles of management during the junior year. The senior year includes defense policy-making, the military professional, strategy, arms control, and military justice. It emphasizes professional responsibilities of Air Force officers within our democratic society and how the Air Force supports national goals. Through case studies, guest lectures, and dialogue, the student cadet experiences a realistic simulation of problems facing officers. The members of the advanced Professional Officer Course develop their leadership skills by supervising freshman and sophomore cadets in Leadership Lab. They practice their communication skills and perform organizational projects similar to those accomplished by active duty Air Force officers. This advanced unit consists of six quarters of on-campus study and a summer field training encampment, which is a prerequisite of the course.

Flight Qualification. Qualified cadets have the additional option of becoming flight officers. Identification for either pilot or navigator training will be made during the POC. Cadets qualified in the pilot category may receive 14 hours of flight instruction and screening to qualify them for entry into USAF flight training after graduation. This instruction will be provided at no cost to the student cadet as part of the Air Force ROTC program. Navigator cadets receive no formal flight instruction until after graduation and commissioning, when they will enter the USAF flight training program.

Assignment. After commissioning, each new officer is assigned to a position within the Air Force structure which best combines his or her academic major and desires with the needs of the Air Force. Past graduates have requested and been assigned to areas of air operations (both flyers and non-flyers); administration; biological, medical, physical, and social sciences; engineering; law; and research and development in aerospace technologies.

Military Science Program (Army ROTC)

The Military Science Program is designed to develop the leadership and management skills required of an officer in the United States Army. The military science curriculum complements the student's normal coursework for a baccalaureate degree and provides a basis for progression toward a commission as an officer in the United States Army. There are two programs available to the student: the traditional four-year program which parallels the normal college program, and the two-year program which permits a student to enter prior to the last two years of college.

During the first two years or basic course, the student takes classes (two credit hours per quarter) in general military subjects including an introduction to the Army ROTC program, leadership, land navigation, survival training, and military campaign studies. These courses provide a basic understanding of the military system, and a background for the second two years of the program. During the first two years there is no requirement for wearing of uniforms, and no military service obligation is incurred. Students may be given credit for the basic course in several ways, which qualifies them for continuation in the ROTC program. Students having prior military service, credit for other officer training courses, or currently serving in the National Guard or Reserves may receive credit for the basic course. Additionally, students may attend a six-week ROTC basic camp, Camp Challenge, during the summer between their sophomore and junior years in lieu of the basic course. Attendance at camp is voluntary and incurs no military service obligation.

The second two years or advanced course expands the student's knowledge of military subjects including military justice, tactics, ethics and professionalism, management, training, and current issues affecting the military. In addition to the credit courses, the department conducts a leadership laboratory in which all advanced students take part in planning and conducting adventure-type outdoor training activities. Examples of such activities are rappelling, survival swimming, marksmanship, physical training, backpacking, and land navigation. Advanced course students are required to attend a six-week summer camp between their junior and senior years. All summer camp expenses are paid by the Army including meals, housing, travel, and uniforms. In addition, each cadet is paid approximately \$600 in military pay for camp attendance. (This applies to both basic and advanced camps.)

The Department of Military Science also sponsors several extracurricular clubs or activity groups, organized by the cadets with faculty advisors, such as the Ranger Club (which includes a drill team), color guard, rifle team, and Association of the United States Army (AUSA) club. Cadets may be selected on a voluntary basis for attendance at U.S. Army schools such as Airborne (parachutist) School, Air Assault School, and Northern Warfare School.

During the advanced course the student enters into a contract which obligates him or her to complete the program, accept a commission as an officer, and serve in the U.S. Army, U.S. Army Reserves, or Army National Guard. Upon graduation and commissioning, lieutenants have a variety of assignments and locations (Europe, Far East, and U.S.) in which to complete their military service obligation. Past graduates have been assigned duties in the fields of aviation, material management, communications, administration, and engineering among many other professional fields in the modern Army.

Courses of Instruction

Courses of Instruction

Catalog Numbers The catalog number indicates the student classification for which the course is primarily intended:

001-099	Noncredit courses
100-299	Undergraduate general program
300-499	Undergraduate advanced or specialized program

Within the College of Arts and Sciences, the alphabetical catalog-number suffixes -I and -O generally are not used. Other alphabetical suffixes have specific meanings: -H, departmental honors courses; -J, junior-level composition courses; -T, honors tutorial courses; -X, study abroad courses.

Credit Credit for a course is indicated by the number or numbers in parentheses following the course title. It may be expressed: (3), (1-3), or (2 or 3).

A course with one quarter hour of credit (1) is the equivalent of one recitation or two or more laboratory periods per week throughout a quarter.

In a course carrying variable credit, the credit may be expressed (1-4, max 8), indicating that one hour is the minimum and four hours is the maximum amount of credit allowed for the course in one quarter. However, a student may enroll in the course any number of times and for any number of credit hours, within the quarter limit, provided the total registration for the course does not exceed eight hours.

Courses that satisfy one of the University General Education Tier I or Tier II requirements are indicated by a notation on the title line as follows: Tier I courses are marked either (1E) for English composition or (1M) for quantitative skills; Tier II designations are (2A) applied science and technology, (2H) humanities and fine arts, (2N) natural sciences and mathematics, (2S) social sciences, and (2T) Third World cultures.

Courses that satisfy General Education Tier III requirements are grouped under the heading Tier III.

Course prerequisites are indicated at the beginning of the course description, following the abbreviation "Prereq." A student who has any doubts if he or she has fulfilled prerequisites, due to changes in the numbering system over the past several years, should check the course titles and consult with his or her advisor and the office of the dean. A student who completes an advanced course may not subsequently enroll in a prerequisite course for credit.

If a course is offered for other than the normal academic year of fall, winter, and spring quarters, this fact is noted in parentheses after the prerequisite. Such courses are offered only in the quarters specified.

Instructors Unless otherwise indicated in italics following the quarter specification in the courses description, the course may be taught by any member of the staff of the department. This course listing is verified as of May 1994.

Fees When a course requires a private instructional fee, the amount is stated in the course description.

Rank The appropriate student rank or standing, when applicable, is indicated by the following abbreviations:

Freshman: fr

Sophomore: soph

Junior: jr

Senior: sr

Lecture and Laboratory Hours

Lecture and laboratory hours are abbreviated "lec" and "lab," respectively.

Schedule A *Schedule of Classes* is available each quarter from the Registrar's Office.

Courses of Instruction are available in the following areas of study (course prefixes are in parentheses):

Accounting (ACCT)
 Accounting Technology (ATCH)
 Aerospace Studies (AST)
 African American Studies (AAS)
 Anthropology (ANTH)
 Art (ART)
 Art History (AH)
 Aviation (AVN)
 Biological Sciences
 Biological Sciences (BIOS)
 Microbiology (MICR)
 Biology (BIOS)
 Business Administration (BA)
 Business Law (BUSL)
 Business Management Technology (BMT)
 Chemistry (CHEM)
 Communication Systems Management (COMT)
 Comparative Arts (CA)
 Computer Science (CS)
 Computer Science Technology (CTCH)
 Dance (DANC)
 Design Technology (DTCH)
 Economics (ECON)
 Education
 Counselor Education (EDCE)
 Curriculum and Instruction (EDCI)
 Economic Education (ECED)
 Educational Administration (EDAD)
 Educational Media (EDM)
 Elementary Education (EDEL)
 International and Comparative Education (EDIC)
 Middle School Education (EDMS)
 Professional Laboratory Experience (EDPL)
 Secondary Education (EDSE)
 Special Education (EDSP)
 Vocational Education (EDVE)
 Electronics Technology (ETCH)
 Engineering, Chemical (CHE)
 Engineering, Civil (CE)
 Engineering, Electrical and Computer (EE)
 Engineering, Industrial and Systems (ISE)
 Engineering, Mechanical (ME)
 Engineering and Technology (ET)
 English
 English Language and Literature (ENG)
 Humanities (HUM)
 Environmental and Plant Biology (PBIO)
 Film (FILM)
 Finance (FIN)

Foreign Languages and Literatures
 Arabic (ARAB)
 Chinese (CHIN)
 Classical Archaeology (CLAR)
 Classical Languages in English (CLNG)
 Foreign Literatures in English (FLT)
 French (FR)
 German (GER)
 Greek (GK)
 Indonesian/Malaysian (INDO)
 Italian (ITAL)
 Japanese (JAPN)
 Latin (LAT)
 Modern Languages (ML)
 Russian (RUS)
 Southeast Asian Literatures in Translation (INDO)
 Spanish (SPAN)
 Swahili (SWAH)
 Geography (GEOG)
 Geological Sciences (GEOL)
 Hazardous Materials Technology (HMT)
 Health and Human Services (HS)
 Health Sciences
 Environmental Health (EH)
 Health Sciences (HLTH)
 Industrial Hygiene (IH)
 Hearing and Speech Sciences (HSS)
 History (HIST)
 Human and Consumer Sciences
 Child and Family Studies (HCCF)
 Fashion and Retail Merchandising (HCRM)
 Food and Nutrition (HCFN)
 General Education (HCGE)
 Interior Design (HCID)
 Human Resource Management (HRM)
 Human Services Technology (HST)
 Industrial Technology (IT)
 International Studies (INST)
 Interpersonal Communication (INCO)
 Journalism (JOUR)
 Law Enforcement Technology (LET)
 Linguistics (LING)
 Management (MGT)
 Management Information Systems (MIS)
 Manufacturing Technology (MTCH)
 Marketing (MKT)
 Mathematics (MATH)
 Military Science (MSC)
 Music (MUS)
 Applied Music
 Music Education
 Music History and Literature
 Independent Studies in Music
 Music Theory and Composition
 Music Therapy

Nursing
 Associate Degree Program (NURS)
 Baccalaureate Program (NBSP)
 Office Administration Technology (OAT)
 Office Management Technology (OMT)
 Ohio Program of Intensive English (OPIE)
 Operations (OPN)
 Philosophy (PHIL)
 Physical Therapy (PT)
 Physics and Astronomy
 Astronomy (ASTR)
 Physical Science (PSC)
 Physics (PHYS)
 Political Communication (POCO)
 Political Science (POLS)
 Psychology (PSY)
 Quantitative Business Analysis (QBA)
 Radio-Television (RTV)
 Real Estate Technology (REAL)
 Recreation and Sport Sciences
 Athletic Training (HSAT)
 Coeducational Activities (HSC)
 Men's Activities (HSM)
 Physical Education and Sport Sciences (HPES)
 Recreation Studies (HREC)
 Women's Activities (HSW)
 Security/Safety Technology (SST)
 Social Work (SW)
 Sociology (SOC)
 Telecommunications (TCOM)
 Theater Arts (THAR)
 Tier III (T3)
 University College (UC)
 University Professor (UP)
 Visual Communication (VICO)
 Women's Studies (WS)

Accounting (ACCT)

201 Financial Accounting (4)

Prereq: Tier I English and Math, ECON 103. (fall, winter, spring, summer) Introduction to the accounting process and external financial reporting.

202 Managerial Accounting (4)

Prereq: 201. (fall, winter, spring, summer) Uses of accounting information for making managerial decisions. Study of cost behavior, overhead costs allocation, basic cost accumulation systems, elementary capital budgeting, master and flexible budgets, and cost control.

217 Introduction to Taxation (4)

(fall, spring, summer) Introduction to process of taxation with emphasis on broad provisions of federal income tax as it applies to individuals. (Prereq for 317.) Required for accounting major.

218 Computer Application Software for the Small Business (4)

Prereq: 202, BUSL 255, MIS 100, or perm. Instructs students in hands-on use of accounting software on personal computers; provides survey of record keeping for small business, including tax reporting obligations.

303 Intermediate Accounting I (4)

Prereq: 202. (fall, winter) In-depth study of conceptual framework of accounting, disclosure standards for general purpose financial statements, and measurement standards for cash, receivables, inventories, and associated revenues and expenses, including application of compound interest techniques. Required for accounting major.

304 Intermediate Accounting II (4)

Prereq: 217, 303, and perm. Avg 2.5 g.p.a. in 4 previous courses usually means acceptance. (winter, spring) Measurement and reporting standards for tangible and intangible operating assets, investments, liabilities, contingencies, stockholders' equity, and special problems of revenue recognition. Required for accounting major.

305 Intermediate Accounting III (4)

Prereq: 304. (fall, spring) Measurement and reporting standards for pensions, capital leases, interperiod tax allocation, dilutive securities and earnings per share; accounting changes and error correction; statement of cash flows; financial statement analysis; special disclosure standards; financial reporting and changing prices. Required for accounting major.

310 Cost Accounting (4)

Prereq: 202, jr. (winter, spring, summer) Emphasis on manufacturing and service organizations. Topics include job order costing, process costing, analysis of cost variances, and complex capital budgeting issues. Required for accounting major.

311 Industrial Accounting (4)

Prereq: 201, 202, jr. Primarily for nonaccounting majors. Explains how accounting data can be interpreted and applied by management in planning and controlling business activities. Shows how accounting data can help solve problems confronting management. Attention also given to use of accounting data by investors, potential investors, and lenders. Concentration on use of data rather than collection and presentation.

312 Accounting for Health Care Organizations (4)

Prereq: 201 and 202, jr. Introduces student to use of accounting data in planning and controlling health care organizations. Basic cost accounting theory and applications stressed as aids to fee setting, budgeting, asset acquisition functions.

317 Federal Income Taxes (4)

Prereq: 217, jr or perm. (fall, winter) Continuation of 217 with emphasis on details of federal income tax as it applies to individuals and special provisions which apply to corporations. Required for accounting major.

340 Advanced Cost Accounting (4)

Prereq: 310, jr. (spring) Current cost accounting topics. May include case studies, computer simulation games, computer projects, and role playing.

345 Accounting Systems and Internal Control (4)

Prereq: 303, or perm. (fall, winter) Computer technology as it relates to design, implementation, and operation of accounting information systems. A major portion of the course devoted to internal control procedures. Required for accounting major.

347 Tax Research (4)

Prereq: 317, jr. (fall) Advanced tax problems of individuals, partnerships, and corporations with emphasis on tax research and research methodology.

406 Advanced Accounting (4)

Prereq: 305. (winter, spring) Business mergers, consolidated financial statements, partnerships, international operations, corporate bankruptcy, and branch office accounting. Required for accounting major.

407 Seminar in Current Topics (4)

Prereq: 305. (spring) Research in current accounting issues, including written and oral reports of findings.

413 Governmental and Nonprofit Theory and Practice (4)

Prereq: ACCT major, 303 or perm. (winter) Accounting theory for governmental and nonprofit organizations: financial reporting; fund accounting; budgeting and control.

451 Auditing Principles (4)

Prereq: 305 or perm. (fall, winter) Basic concepts and applications in external, internal, and governmental auditing. Includes an introduction to current audit technology. Required for accounting major.

452 Advanced Auditing (4)

Prereq: 451. (spring) Auditing theory and practice with emphasis on professional standards, ethics, legal liability, special reports, special industries, and advanced auditing techniques.

457 Advanced Tax (4)

Prereq: 317 or perm. (spring) Tax aspects of corporate organizations, distributions; reorganizations and liquidations; partnership taxation; Sub S corporations.

491 Seminar (3, 4, or 5)

Prereq: perm. Selected topics of current interest in accounting area.

497 Independent Research (1-15)

Prereq: perm. Research in selected fields of accounting under direction of faculty member.

498 Internship (1-4)

Prereq: perm. (fall, winter, spring, summer).

Accounting Technology (ATCH)

The following courses for the A.A.B. in accounting technology are available only on the Lancaster campus.

103 Financial Accounting Procedures (4)

Prereq: MATH 102 or concur. (fall) Fundamental accounting principles for service businesses and merchandising enterprises; debits, credits, and double entry; journalizing and posting, accounting systems and special journals; accounting for purchases and sales, cash, receivables, interest, revenue, and expense; financial statement preparation, including adjusting and closing procedures.

104 Financial Accounting Procedures (4)

Prereq: 103. (winter) Accounting procedures for inventory, plant assets, intangible assets, long-term investments, current liabilities, long-term liabilities; accounting procedures for owners' equity in single proprietorship, partnership, and corporation.

105 Financial Accounting Procedures (4)

Prereq: 104, MATH 113. (spring) Financial statement analysis, annual reports, statement of cash flow, managerial accounting concepts and principles, job order cost systems, process cost systems.

203 Tax and Governmental Reporting Procedures (4)

Prereq: 104. (spring) Consideration of data sources, forms, and filing requirements for payroll taxes, income taxes, withholding taxes, FICA, sales taxes, unemployment reports, and wide variety of other specialized local, state, and federally required reports and procedures.

204 Electronic Data Processing Accounting Procedures (4)

Prereq: 105, CTCH 125 or equiv, and MATH 113. (fall) Use of computers to perform both specialized and routine accounting functions formerly done by hand. An integrated general ledger program and an electronic spreadsheet program are used.

205 Manufacturing Accounting I (4)

Prereq: 105, MATH 113. (spring) Study of cost behavior; data collection procedures and reports for manufacturing firms, job order costs; process costs; standard costs; overhead allocation methods.

206 Manufacturing Accounting II (4)

Prereq: 205. (winter) Continuation of 205. Application of techniques learned in 205 to special project in which costs and reports are generated for a product or process chosen by the class.

209 Business Statistics (4)

Prereq: MATH 113. Basic statistics, demonstrated and developed through problems typical of actual business situations. Procedures and applications of statistical analysis and inference as they relate to business activity.

225 Federal Income Tax Procedures (4)

Prereq: for credit, 203; for noncredit, perm. Comprehensive course in fundamentals of federal income taxation and preparation of individual, partnership, and corporation tax returns.

241 Auditing Procedures (4)

Prereq: 203, 206, 225. (spring) Study of purposes and scope of audits including audit objectives, professional ethics, audit files and working papers, legal responsibilities, internal control, statistical sampling, tests of transactions, audit procedures and disclosure requirements, and preparation of audit reports. This course is intended to prepare the associate's degree graduate to enter the public accounting field as assistant to a licensed professional.

299 Independent Study (1-5)

Prereq: perm. Supervised independent study projects in accounting technology.

Aerospace Studies (AST)

(Air Force ROTC)

The Department of Aerospace Studies offers three programs, all of which lead to a commission as a second lieutenant in the United States Air Force.*

The four-year program is designed for students who can begin Air Force ROTC with the fall quarter of their freshman year and complete aerospace studies requirements by their date of graduation. Students taking the four-year program begin by enrolling in AST 101. Out-of-sequence courses can be scheduled by arrangement with the Department of Aerospace Studies.

The two-year program is designed for students unable to take Air Force ROTC during their first two years of college. It is similar to the last two years of the four-year program. Students interested in this program should consult the chair of the Department of Aerospace Studies during their first year (or, in any event, not later than the beginning of the fall quarter of the sophomore year) for instructions regarding application for this program.

The one-year program is limited to electrical engineering, computer science, and nursing majors. Students interested in this program should consult the chair of the Department of Aerospace Studies for further information.

Entry into the Professional Officer Course (AST 300 and 400 series) is based upon a best-qualified selection process. Completion of the General Military Course (AST 100 and 200 series) does not guarantee entry into the Professional Officer Course (POC), but makes one eligible to compete for acceptance into the POC. After graduation and commissioning, the officer serves a minimum of four years active duty with the United States Air Force. For further information contact the chair of the Department of Aerospace Studies, Lindley Hall 232.

*Students enrolled in any program may compete for Air Force scholarships which pay full tuition, books, lab fees, and a tax-free monthly allowance.

101 Introduction to the U.S. Air Force (1)
(fall) Role of officer and subordinate, communication, and general organization of the United States Air Force. 1 hr of academics and 1 hr of leadership lab each wk.

102 Air Force Missions (1)
(winter) The mission of major Air Force command organizations, base services, professions, and an introduction to flight. 1 hr of academics and 1 hr of leadership lab each week.

103 Defense Policy and Forces (1)
(spring) Defense policy, general purpose, and Air Reserve Forces with special attention given to Army, Navy, and Marine Corps general purpose forces. 1 hr of academics and 1 hr of leadership lab each wk.

201 History of Air Power (1)
(fall) History and development of air power in U.S. 1 hr of academics and 1 hr of leadership lab each wk.

202 Air Power Today (1)
(winter) Covers Air Force concepts, doctrine, and employment: how technology has affected growth and development of air power. 1 hr of academics and 1 hr of leadership lab each wk.

203 Uses of Air Power (1)
(spring) Changing mission of defense establishment: how air power is employed in military, nonmilitary, and strategic operations. 1 hr of academics and 1 hr of leadership lab each wk.

301 Air Force Communications (3)
Prereq: POC status or perm. (fall) Development of communication skills in the Air Force style and format. Emphasis on basic writing and briefing techniques; counseling fundamentals of the Air Force officer and the officer promotion system are also reviewed. Leadership lab provides opportunity to practice skills learned. 3 hrs of academics and 1 hr of leadership lab per wk.

302 Air Force Concepts and Practices I: Management (3)
Prereq: 301 or perm. (winter) Review of selected concepts, principles, and theories of management as applied in the Air Force. Continued development of communication and leadership skills. 3 hrs of academics and 1 hr of leadership lab per wk.

303 Air Force Concepts and Practices II: Leadership (3)
Prereq: 302 or perm. (spring) Military professionalism and leadership theory, strengths and weaknesses of various leadership styles, review of responsibilities, authority, and functions of Air Force officers. Continued development of communication and leadership skills. 3 hrs of academics and 1 hr of leadership lab per wk.

401 The Military and the American Society (3)
Prereq: POC status or perm. (fall) Study of military and professional soldier in democratic society and military as socializing institution. Communicative skills via student oral presentations and written reports emphasized. 3 hrs of academics and 1 hr of leadership lab each wk.

402 Strategy and the Use of Force (3)
Prereq: 401 or perm. (winter) Evaluation of strategy and study of arm's control, general and limited war. Communication and leadership skills via student presentations and written reports. Emphasizes qualities and techniques of leadership. 3 hrs of academics and 1 hr of leadership lab each week.

403 American Defense Policymaking (3)
Prereq: 402 or perm. (spring) Organization and case studies in defense policymaking and bureaucratic decision making. Continues communicative skills and techniques of leadership. Examines military law. 3 hrs of academics and 1 hr of leadership lab per wk.

African Studies

See International Studies.

African American Studies (AAS)

(Major code #BA4903)

The Department of African American Studies (AAS) offers an undergraduate major and minor. Graduates completing the major program receive a Bachelor of Arts degree with a major in African American studies. Courses include communications, education, political science, psychology, social sciences, art, literature, and music as these reflect and provide insight into the African American experience.

The requirements for a major consist of 56 quarter hours, including the core requirements of AAS 101; AAS 106; AAS 202; and one course from AAS 110, 150, or 180. Within the 56 hours, at least 28 must be in one of two focal areas—either the social sciences or the arts and humanities. That focal area must include at least one course from four of the groups below and at least 16 hours at or above the 300 level.

The social sciences groups are (1) history—AAS 225, 235, 254, 340, 364; (2) sociology/psychology—AAS 331, 341, 345, 430, 431, 440, 482, 494; (3) political science—AAS 360, 368, 370, 430; (4) economics—AAS 432, 460; and 465; (5) education—AAS 380.

The arts and humanities groups are (1) literature (African American) AAS 210, 211, 310, 311, 411; (2) literature (intercultural)—AAS 315, 316, 317, 318; (3) arts—AAS 250, 350, 490B, 490C, 490D; (4) music—AAS 355, 356, 357, 490A.

The Minor

The minor in African American Studies is available to all undergraduate students regardless of major. The requirements for a minor consist of a minimum of 28 hours of coursework in one of two options: the minor concentration or the interdisciplinary minor. The minor concentration in either the social sciences or the arts and humanities consists of a minimum of 28 hours, including at least 20 hours in the chosen area, and AAS 101, African American History I, and AAS 106, Introduction to African American Studies.

The interdisciplinary concentration requires at least one course from each of the two focal areas; at least two additional courses at the junior or senior level; and AAS 101, African American History I and AAS 106, Introduction to African American Studies.

Grade-Point Average

The minimum grade-point average for graduation is a 2.0 (C) on a 4.0 scale in all courses attempted. A C grade also is required in each major course.

Academic Advising

Advising is an essential element in the African American Studies Program. Each student works closely with a faculty member whose expertise and interests are related to the student's academic pursuits.

101 African American History I, 1526-1865 (4) (2S)

Survey of key economic, political, ideological, and social elements that shaped destinies of black people in the United States from 1526 to 1865.

106 Introduction to African American Studies (4)

Interdisciplinary course designed to introduce students to field of African American studies. Focuses upon subject matter, scope, assumptions, and methods of various academic disciplines that are constituent parts of African American Studies Program, and seeks to show how these disciplines collectively contribute to broadest understanding of African American experience and, thus, of the general American experience from a black perspective.

110 Introduction to African American Literature (4) (2H)

Provides general introduction to and overview of canon of African American literature. By examining a variety of texts, genres, themes, and issues in literature by black Americans, this course seeks to establish foundations and achievements of African American literary tradition. Examines various critical approaches to study of literature.

135 History of Colonialism (4)

Historical-social analysis of development of colonialism in Africa, how colonialism led to underdevelopment of Africa, and review of ideological justification of this phenomenon. Special focus placed on development of colonialism in 19th and 20th centuries up to Year of Africa (1960). Specific attention given to ideological contribution of Frantz Fanon to colonial situation. Combination of books in fields of history, psychology, economics, and literature so student will obtain integral picture of colonial period.

150 Introduction to Black Media (5) (2H)

Historical analysis of images of blacks in cinema, radio, and television programming; origin and development of stereotypes; relationship of these images to societal developments; examination of alternatives.

180 Introduction to African American Education (4)

Explores historical and philosophical foundations, development of education for African Americans, and formulations of dual educational system. Further, makes comparisons and contrasts among various philosophical views which have shaped formation of American educational institutions, theories, and practices.

202 African American History II, 1865 to Present (4) (2S)

Survey of key economic, political, ideological, and social elements that have shaped destinies of black people in the United States from 1865 to present.

210 African American Literature I (4) (2H)

First of 2-qt survey of African American literature. Covers period from about 1760 to end of Harlem Renaissance. Focuses on such writers as Phillis Wheatley, Frederick Douglass, Charles W. Chesnut, Paul Laurence Dunbar, James Weldon Johnson, and writers of Harlem Renaissance—Claude McKay, Jean Toomer, Langston Hughes, Countee Cullen, Zora Neale Hurston. Folk literature and other materials important to an understanding of African American literary tradition will be included.

211 African American Literature II (4) (2H)

Begins where 210 ends. (However, 210 not a prereq.) Treats African American literary expression from around 1940 to present. Writers included are Richard Wright, Margaret Walker, Gwendolyn Brooks, Ralph Ellison, James Baldwin, Amiri Baraka, Ishmael Reed, and others who have contributed to African American literary tradition.

220 Theories of African American Social Development (4)

Exploration of theories or political policies and economic processes, their interrelations, and their influence on socio-economic character of black community.

225 History of the Black Worker (4)

Analysis of historical role of black labor force in American economy, with emphasis on patterns of relationships between black workers and general organization of American labor movement.

235 Comparative Neo-Colonialism (4)

Attention paid to historical-social analysis of neo-colonialism—how new methods and maneuvers used to exploit labor and resources in 20th century. Focus on Africa, although students' areas of interest will also be accommodated.

250 Foundations of African American Arts and Culture (4) (2H)

Provides introductory examination of African American experience through concern with socio-cultural approaches to modes of thought, cultural institutions, historical experiences, lifestyles, and artistic expression. As cultural history, designed to provide understanding of foundations, sources, and history of ideas of African American experience. Considers influence of traditional African arts and culture on development of cultural traditions in Americas, early African American arts and crafts, and development of the African American culture tradition from slavery to present.

254 History of Injustice in the United States (5)

Critical analysis of problems in the U.S. Special attention given to 1) education, 2) voting, 3) social services, 4) fair housing, and 5) legal system.

310 Contemporary African American Literature (4)

Focuses on African American literature of the 1960s and since. Concern with writers who emerged as major figures during this period. Attention also given to major literary, cultural, and aesthetic developments that fashioned new favorability among black writers.

311 African American Literature: Special Topics (4)

Prereq: soph. Intensive study of selected theme or topic. Course will vary from qtr to qtr; thus students should check departmental brochure to ascertain topic any given qtr.

315 Literature of West Africa (4)

Prereq: jr or sr. Intensive examination of representative works, authors, and movements. Using cultural and socio-political perspectives, course seeks to define style, structure, and mode and to indicate how these interrelate, help to determine meaning, form, etc. Authors like Achebe, Armah, Senghor, Soyinka, Laye and Oyono, Mongo Beti and Kofi, Awoonor, and Ama Ata Aidoo considered, to analyze, e.g., Negritude, phases in West African writing during last 30 yrs. Essays and critical literature given some attention.

316 Literature of South Africa (4)

Explores development of South African literature since 1940s and, while confining itself to writings of black writers of all complexions, examines how this literature reflects conditions of life of the majority of South African population. Course entails vast landscape of structured background reading on history, politics, economics, and demography of South Africa and on aesthetics of particular cultures.

317 Caribbean Literature: Major Authors and Movements (4)

Survey of literature in English and translations written by Caribbean authors. Major themes and literary movements of Caribbean discussed: Negritude, Negrismo, ancestral imperative, search for identity, reordering of group images. Transcultural and syncretic elements discussed. Outside readings essential for class contributions.

340 The Black Community in Post-World War II (4)

Survey of black community's development during 20th century and its relation to development of larger American society over same period. Focus on post-WW II community processes.

341 African American Personality (4)

Examination of organization and structure of African American personality within American and African socio-psychological contexts. Special emphasis on various forces which shape African American personality.

345 The Black Woman (4)

Prereq: soph and perm. Roles of black women in education, social development, and stabilization of their families. Impact of history of oppression and struggle on social psychology of black women.

350 African American Arts and Artists (4) (2H)

Intensive study of African American artists, aesthetic principles, and African American arts movements from the late 19th century to present. Development of black professional artists, artists of Harlem Renaissance, black cultural nationalist art, modernism and African American artists, social protest, and street murals among topics covered.

355 History of African American Music I, Slavery-1926 (4)

Socio-historical examination of African American music and its role in shaping American music. Recordings and guest lectures used as integral part of course. Examines spirituals, rural blues, ragtime, and early jazz.

356 History of African American Music II, 1926-Present (4)

Socio-historical analysis of African American music and its role in shaping modern American music. Recordings and guest musician/lecturers used as integral part of course. Examines big band era, urban blues, bebop, rhythm and blues, hard bop, black classical composers, contemporary popular, and avant-garde musics.

360 Black Politics in the United States (4)

Examines American political system from perspective of black political behavior and relationship of blacks to political system at national, state, and local levels. Includes analysis of civil rights movement as well as socio-political movements associated with ideologies of black nationalism and black liberation.

364 Comparative Study of Injustice (4)

Comparative analysis of different approaches to civil and human rights in selected developed and developing countries. Review of theory of justice and political consequences in chosen countries.

368 Black Political Thought (4)

Analysis of basic tenets of black thought in U.S. Emphasis on theoretical dimensions of post-Civil War black social and political thinkers.

370 Urban Violence (4)

Systematically examines empirical and theoretical literature on urban violence, particularly riots during 1960s.

380 Seminar in African American Education (4)

Prereq: 8 hrs of education or social sciences. An examination of critical issues in contemporary society that affect the education of African Americans. Topics to be explored include status and preparation of teachers, curriculum development, educating black children for the 21st century, multicultural education, impact of computer technology and scientific developments as they affect African American students, teachers, and parents.

411 Literature Seminar (4)

Subject varies. May be repeated as subject changes.

430 Social Theories of Underdevelopment (4)

Systematic review of problems of social change in developing areas from multidisciplinary point of view. Due attention given to problems of agrarian reform, urbanization as social process, regional disparities within framework of single nation/state inter alia. Comparative analysis of problems of social development undertaken typologically.

431 Psychology of Neo-Colonialism (4)

Examination of role of neo-colonialism in shaping social psychology of oppressed. Special examination made of works of Fanon, et al.

432 Third World National Movements (4)

Comparative study of varieties of national oppression. Question of ethnonationalism, clerical nationalism, and other forms of response to oppression reviewed. Due attention given to various notions of Pan-Africanism and Black Nationalism in U.S., Africa, and Latin America.

440 The Black Child (4)

Entails in-depth analysis of black child, impact and effects of growing up black in America. Specifically, seeks to determine effects and role of family, school, neighborhood, economic status, and society at large on sociological and psychological development of black child.

460 Social Processes: Third World Urbanization (4)

Deals with laws of development of urbanization as it relates to anatomy of civil society. Special focus on how current urban crisis related to structural, cyclical, and general crisis of modern society. Political economy of urban ghetto both in U.S. and Third World singled out for special inquiry. New thought given to suburbanization process so-called "Post City Phenomenon," etc. Due focus on connection between urban crisis, racial problems, and possibility of American apartheid. Urbanization as social process in Africa, Asia, and Latin America studied comparatively.

482 The Black Family (5)

Black family in America and its important role in development of ethnic differences, strengths, and strategies.

490 Independent Study (1-5)

Prereq: prior perm. Primarily for students interested in concentrated study in specific area in cooperation with advisor.

Anthropology (ANTH)**(Major code #BA4252)****General Emphasis**

Anthropology may be broadly defined as the scientific study of humankind. This discipline has two major foci: humans as biological organisms and as cultural beings. Anthropology has three subfields: biological anthropology, cultural anthropology, and archaeology. Anthropology is a holistic, comparative, and functional discipline which provides a broad framework through which human activities, adaptations, and changes may be meaningfully interpreted in time and in space. Much of anthropology deals with non-Western cultures. Courses in anthropology provide a cross-cultural awareness to students in all fields and are particularly useful for students in the social sciences, environmental sciences, journalism, education, biological sciences, linguistics, cross-cultural communication, dance, photography, film, and others.

Preparation in Anthropology

Students who are interested in becoming professional anthropologists may prepare for graduate school in the Department of Sociology and Anthropology. The anthropology major offers students training in the methods and results of cultural anthropology, biological anthropology, and anthropological archaeology. A minor in anthropology is also available for those students who wish to add a non-Western cultures dimension to their University education.

Advising

Majors are required to select their advisors from among the anthropology faculty. As student interest shifts, the advisor may be changed to reflect new interests. An advisor will aid in the design of an individualized course of study. Nonanthropology courses can be declared as anthropology credit toward the major with permission from the advisor; for example, an interest in ethnoenvironmental and plant biology may lead to environmental and plant biology courses counting as part of an anthropology major. Of the total hours required, however, no fewer than 43 hours must be in departmental anthropology courses. Students are encouraged to take courses in fields related to anthropology. For instance, courses in environmental and plant biology, biological sciences, geology, geography, history, linguistics, international studies, mathematics, psychology, sociology, and so on may be recommended for students interested in particular anthropological specialties. All majors are required to take the introductory courses in cultural anthropology (101); biological anthropology (201); and anthropological archaeology (202).

Course Requirements

For a major in anthropology:

Credit Hours

- 9** ANTH 101 plus 4 hours of cultural anthropology selected from 345, 348-351, 355, 357, 366, 371, 372, 375-381, 385-387, 460, 472, 494A, and when the topic is appropriate, 373, 455, 494D
- 9** ANTH 201 plus 4 hours of biological anthropology selected from 391, 492, 494B, 496, and, when the topic is right, 373, 494D
- 9** ANTH 202 plus 4 hours of archaeological anthropology from 361, 364, 368, 452, 494C, and, when the topic is appropriate, 373, 455, 465, 494D
- 8** 8 additional hours in anthropology at the 400 level, divided between 2 of the 3 main areas above
- 20** 20 additional hours in anthropology at any level
- 55 Total**

For a minor in anthropology:

Credit Hours

- 5** ANTH 101
- 5** ANTH 201 or 202 (both recommended)
- 16** 16 additional hours in anthropology (to include 4 hours at 400 level and 4 additional hours at the 300 or 400 level)
- 26 Total**

101 Introduction to Cultural Anthropology (5) (2T)

Basic concepts; introduction to various world cultures; nature of cultural diversity; evolution of socio-cultural systems. Qualifies as Tier II Third World Cultures course.

201 Introduction to Biological Anthropology (5) (2N)

Evolutionary theory; primates; fossil record of human evolution; mechanics of evolution; human variation.

202 Introduction to Anthropological Archaeology (5) (2S)

Basic concepts, and how archaeologists date and reconstruct extinct lifeways and explore evolution.

301 Anthropology and Film (5)

Prereq: 101 or perm. The use of film as a medium for recording cultural information; as a technique for observation, analysis, and interpretation of cultural information; and as a means for presenting information about cultures, human adaptation, human evolution, and anthropological research itself.

345 Gender in Cross-Cultural Perspective (4)

Prereq: 101 and soph. Considers the range of cultural diversity in defining gender roles; comparative approach towards understanding the behaviors and perceptions associated with gender

348 Education: Cross-Cultural Perspectives (4)

Prereq: 101. Survey of ways of growing up in various cultures, emphasizing relationships between individual and culture

350 Economic Anthropology (4)

Prereq: 101. Survey of economic arrangements found in various types of cultural systems, economic exchange systems, in non-Western cultures, anthropological analysis of economic life

351 Political Anthropology (4)

Prereq: 101. Anthropological exploration of various political systems around world, cross-cultural examination of political leadership, political power, warfare, etc. Emphasis on non-Western, non-industrialized cultures

355 Medical Anthropology (4)

Prereq: 101. Non-Western medical systems and theories of health and disease causation; social basis for diagnosis and cure; curing rituals; symbolism of health and illness. Ecological factors in health and nonhealth; systemic connections between health concepts, culture, and environmental situation.

356J Writing in Sociology and Anthropology (4) (1J)

Prereq: jr and perm or 13 hrs sociology and/or anthropology. Jr-level composition course for sociology and anthropology majors and students in related fields. Combines writing instruction with consideration of substantive social science topic. Students will try various genres of social science writing (book reviews, grant proposals, field notes, interviews, etc.).

357 Anthropology of Religion (4)

Prereq: 101. Anthropological consideration of ritual and myth in various cultures; shamanism, trance, taboo, etc., in social systemic, symbolic, structuralist, and ecological perspective. Comparison of different anthropological frameworks for understanding religious phenomena in an objective, social scientific way.

361 North American Prehistory (4)

Prereq: 101, 202, or perm. Analysis and interpretation of the cultural evolution of indigenous North American Indian cultures. Emphasis placed on those cultures from Ohio and the Midwest.

364 Near East Prehistory (4)

Prereq: 202 or perm. Scrutiny of the archaeological data and consequent reconstruction of the evolutionary process affecting cultures in the Near East. Analysis begins with the earliest occupation of the region and ends with the establishment of various state systems.

366 Cultures of the Americas (4)

Prereq: 101. Survey of past and/or present cultural diversity present in North, South, or MesoAmerica or the Caribbean with emphasis on application of anthropological method and theory to understanding of particular socio-cultural systems. Emphasis varies by instructor.

368 Latin American Prehistory (4)

Prereq: 101, 202, or perm. Reconstruction, analysis, and interpretation of the process of cultural evolution in pre-Hispanic Latin America.

371 Ethnology (4)

Prereq: 101. In-depth consideration of topics covered in 101; anthropological theory and frames of analysis.

372 Cultures of the World (4)

Prereq: 101. Ethnographic sampling of similarities and differences in cultural systems found around the world and through time. Ethnographic focus varies. May be taken twice for credit.

373 Perspectives in Anthropology (4)

Prereq: 101, 201, or 202. Includes topics from following areas of anthropological concern: nature of scientific inquiry, ethnology, linguistics, archaeology, biological anthropology.

375 Culture and Personality (4)

Prereq: 101; psychology recommended. Interrelations between personality systems and cultural systems.

376 Culture Contact and Change (4)

Prereq: 101. Impacts of cultures upon one another; immediate and subsequent cultural adaptations; theory of change.

377 Peasant Communities (4)

Prereq: 101. Focuses on folk component of state societies.

378 Human Ecology (4)

Prereq: 101 or 201. Analysis of mutual and reciprocal relations between socio-cultural systems and other systems in their environment; ecosystems and biotic communities in which human populations are included.

381 Cultures of Sub-Saharan Africa (4)

Prereq: 101. Survey of cultural diversity present in Sub-Saharan Africa with emphasis on application of anthropological theory and method to understanding of particular socio-cultural systems.

385 Cultures of Southeast Asia (4)

Prereq: 101. Survey of cultural systems of island and mainland Southeast Asia.

386 Problems in Southeast Asian Anthropology (4)

Prereq: 101. Selected topics of current theoretical concern relating to Southeast Asia; comparison of different frames of analysis.

387 Pacific Island Cultures (4)

Prereq: 101. Anthropological exploration of Pacific island cultures and their evolution.

388 Cultures of the Middle East (4)

Prereq: 101. Survey of socio-cultural systems in Contemporary Middle East and North Africa with applications of anthropological theory to analyze cultural similarities and differences. (Usually Zanesville campus only.)

391 Primate Social Organization (4)

Prereq: 101. Exploration of nonhuman primate social behavior and social organization from anthropological perspective, with special focus on development of human cultural behavior.

399 Readings in Anthropology (1-3, max 6)

Prereq: 101 and perm. Supervised readings in various fields of anthropology: archaeology, ethnology, linguistics, biological anthropology.

452 Anthropological Archaeology (4)

Prereq: 202 and one 300 level course in archaeology or perm. Explores contemporary archaeology in which goals, methods, and theory are considered within the framework of science.

455 Seminar in Methodology and Field Research (1-4, max 8)

Prereq: 13 hours and perm. Practical training in application of methods to data in one of the following subfields: archaeology, ethnology, or biological anthropology.

460 Kinship

Prereq: 9 hours. Theoretical framework and ethnographic work on kinship systems of various world cultures; non-Western family systems; kinship terminology, social change in kinship systems.

465 Field School in Ohio Archaeology (5-10)

Prereq: perm. Actual archaeological investigation of prehistoric Indian sites in Ohio. Involves survey, excavation, and laboratory analysis of materials, as well as lectures on anthropological archaeology as they pertain to Ohio.

472 History of Anthropological Thought (4)

Prereq: 101, 201, or 202. In-depth examination of schools of anthropology as they have developed within various subfields at different times and places.

490 Independent Research in Anthropology (1-10, max 10)

Prereq: srs only; 20 hrs ANTH and written perm prior to qtr in which study is begun. Individual research in anthropology in specific problem areas in which student has demonstrated ability and interest.

492 Human Evolution (4)

Prereq: 201. In-depth examination of evidence for biological macro-evolution of humankind. Hominoid and hominid fossil record; speciation; interpretation of fossil remains; and "fit" between paleontological and immunological approaches.

494A Seminar in Cultural Anthropology (4)

Prereq: 2 ANTH courses at 300 level or above, or perm. Advanced course dealing with topics of current research interest in cultural anthropology. Topic varies according to individual course.

494B Seminar in Biological Anthropology (4)

Prereq: 2 ANTH courses at 300 level or above, or perm. Advanced course dealing with topics of current research interest in biological anthropology. Topic varies according to individual course.

494C Seminar in Archaeological Anthropology (4)

Prereq: 2 ANTH courses at 300 level or above, or perm. Advanced course dealing with topics of current research interest in archaeological anthropology. Topic varies according to individual course.

494D Seminar in Human Ecology (4)

Prereq: 2 ANTH courses at 300 level or above, or perm. Advanced course dealing with topics of current research interest in human ecology. Topic varies according to individual course.

496 Human Diversity (4)

Prereq: 201. Exploration of human biological diversity/variability with emphasis on the populationist approach, namely anthropological genetics and demography.

Arabic

See Foreign Languages and Literatures.

Archaeology

Classical Archaeology, see Foreign Languages and Literatures. Anthropological Archaeology, see Anthropology.

Art (ART)
100 Seeing and Knowing the Visual Arts (3) (2H)

Introduction to perceiving and understanding meanings and organizational systems in traditional and contemporary visual arts in context of their social and cultural backgrounds.

101 Two-Dimensional Design (4)

Studio projects exploring vocabulary of 2-dimensional design and dynamics of color systems. Introduction to processes and media. Not open to jr or sr art majors.

102 Three-Dimensional Design (4)

Studio projects in 3 dimensions exploring ordered and dynamic interactions of mass, plane, volume, and space. Introduction to processes and media. Not open to jr or sr art majors.

115 Introduction to Ceramics (4)

Exploration of ceramic techniques for familiarization with range of expression available through ceramic materials. Projects, demonstrations, lectures, and discussions. Not open to jr or sr art majors. Not prereq to 231, 232, or 236.

128 Introduction to Drawing (4)

Use of line, tone, perspective, and texture in objective drawing; development of motor control and visual skills; use of drawing tools. Not open to jr or sr art majors.

131 Introduction to Sculpture (4)

Exploration of traditional and modern concepts of sculpture; lectures, projects, and discussions. Not open to jr or sr art majors. Not prereq to 231, 232, or 236.

151 Introduction to Graphic Design (4)

Studio projects in lettering, typography, spatial design, illustration, and media with emphasis on graphic design as visual communication. Not open to jr or sr art majors.

191 Introduction to Photography (4)

Introduction to techniques and art of photography for majors or nonmajors. Students must have suitable cameras and supply light-sensitive materials and processing.

192 Basic Photography (4)

Prereq: 191 or portfolio and perm. Continuation of 191. Approaches picture-making problems and advanced control of media for prospective majors.

205 Basic Painting (4)

Prereq: 101, 102, and 128 or perm. Development of formal, technical, and conceptual attitudes in painting.

206 Intermediate Painting (4)

Prereq: 205. Problems in painting, investigating recent developments and formal concepts.

207 Intermediate Painting (4)

Prereq: 206. Continuation of 206.

215 Handbuilding (4)

Prereq: 101, 102, and 128 or perm. 3-D form exploration using additive construction processes. Simple engobe, slips, and clay-body formulations accompany these projects.

216 Introduction to Wheel Throwing (4)

Prereq: 101, 102, and 128 or perm. Introduction to creative possibilities of potter's wheel. Functional projects utilizing decorative skills from 215.

217 Combined Techniques (4)

Prereq: 215, 216. Projects designed to expand information introduced in 215, 216. Increase in scale and scope of individual solutions. Wheel throwing and handbuilding.

228 Basic Drawing (4)

Prereq: 101, 102, and 128 or perm. Emphasis on techniques of drawing. Composition, proportion, and disciplined seeing; text may be used.

231 Sculpture: Wood (4)

Prereq: 101, 102, and 128 or perm. Introduction to tools, techniques, and aesthetics of sculpture in wood.

232 Sculpture: Figure Modeling (4)

Prereq: 101, 102, and 128 or perm. Introduction to sculpture in clay, based upon human figure; includes slide presentations; expression through form and gesture emphasized.

241 Lithography (4)

Prereq: 101, 102, and 128 or perm. Introduction to basic lithographic drawing and printing. Emphasis on application of techniques to image making.

242 Etching (4)

Prereq: 101, 102, and 128 or perm. Introduction to basic techniques of intaglio printmaking, including etching, dry-point, aquatint, and color printing. Emphasis on application of techniques to image making.

247 Relief Printing (4)

Prereq: 101, 102, and 128 or perm. Basic techniques of relief printing from wood, metal, and assembled plates in both black and white and color. Emphasis on application of techniques to image making.

248 Serigraphy (4)

Prereq: 101, 102, and 128 or perm. Basic techniques of screen printing including hand-cut stencils, photographic stencils, and multicolor printing. Emphasis on application of techniques to image making.

250 Graphic Design Principles (4)

Prereq: 101, 102, and 128. Explores principles of design through formal introduction to design methodology and theories of communication. Specific problems are developed from concept, through synthesis of form and semantic meaning, into visual communication.

251 Typography (4)

Prereq: 101, 102, and 128 or perm. Typography as designer's tool and as communication. Emphasis on design of symbols and typefaces.

252 Graphic Design: Three-Dimensional (4)

Prereq: 101, 102, and 128 or perm. Examination of 3-dimensional design problems with special attention to environment, packaging, and display.

254 Lettering (4)

Prereq: 101, 102, and 128 or perm. Lettering as design and communication element. History and techniques of lettering and calligraphy.

291 Photographic Manipulation (4)

Prereq: 192 or portfolio and perm. Exploration of image controls allowed by basic variations of camera format, manner of negative production and process, and nonstandard print techniques.

295 Intermediate Photography (5)

Prereq: 192, portfolio review, and perm. Thorough presentation of craftsmanship in photography with emphasis on aesthetics and techniques of photography.

296 Intermediate Photography (5)

Prereq: 295. Continuation of 295 with emphasis on in-depth investigation of qualities of contemporary monochrome materials.

297 Intermediate Photography (5)

Prereq: 296. Color printing from negative color materials.

300J Criticism in the Visual Arts (4) (1J)

Prereq: AH 211, 213, or perm. Tier I composition class designed to encourage understanding of historical perspectives in critical writings on visual arts. Students will read and examine written criticism; develop research, grammar, and editing skills; and write analytical descriptive essays on appropriate visual arts subjects.

303 Watercolor (5)

Prereq: jr. Techniques of transparent watercolor.

304 Watercolor (5)

Prereq: 303. Continuation of 303.

305 Advanced Painting (5)

Prereq: 207 and perm. Development of personal goals and identification of issues with emphasis on individual, creative problems in painting.

306 Advanced Painting (5)

Prereq: 305. Continuation of 305.

307 Advanced Painting (5)

Prereq: 306. Continuation of 305-306.

308 Figure Painting (5)

Prereq: 207. Painting from model.

309 Figure Painting (5)

Prereq: 308. Continuation of 308.

312 Ceramic Throwing (5)

Prereq: 216 or perm. Intermediate throwing problems. Throwing pursued with goal of developing skilled production potters. Course content directed toward, but not limited to, utilitarian object making. Sensitivity toward quality of ware and value of hand-made object stressed.

313 Advanced Ceramic Throwing (5)

Prereq: 312 or perm. Continuation of 312.

314 Ceramic Material (5)

Prereq: jr or perm. Comprehensive study of function of ceramic materials in clay and glazes, effect of firing temperatures, and practical and empirical techniques of using ceramic materials.

315 Ceramics (5)

Prereq: 217. Clay body formulation, wheel throwing, hand building, engobes, kiln firing, salt glazing, and vapor glazing techniques.

316 Ceramics: Porcelain (5)

Prereq: 217. Study of white and porcelainous clay materials, effects on glazes, and limiting characteristics.

317 Ceramics: Stoneware (5)

Prereq: 316. Stoneware materials and high temperature reduction firing.

321 Drawing Workshop (4)

Prereq: jr. (not offered every quarter) Projects using traditional techniques and drawing media including pen and ink and silverpoint.

328 Drawing (4)

Prereq: 228 and perm. (not offered every quarter) Drawing from model. Proportion, structure, and form. Various media.

329 Drawing (4)

Prereq: 328. (not offered every quarter) Approach to personal imagery in drawing. Individual response to traditional and modern drawing attitudes.

331 Sculpture: Wood (5)

Prereq: 8 hrs sculpture or perm. Advanced wood sculpture.

332 Sculpture: Figure Modeling (5)

Prereq: 8 hrs sculpture or perm. Figure studies in clay. To develop better perceptions of masses in space and aesthetic relationships. Expression through form and gesture emphasized.

333 Sculpture: Metals (5)

Prereq: 8 hrs sculpture or perm. Introduction to techniques of sculpture in metal including casting and welding processes and historical and aesthetic development.

334 Sculpture: Fabrication (5)

Prereq: 8 hrs sculpture or perm. Introduction to joining and fastening techniques, additive sculptural processes, and use of power equipment and hand tools in production of sculpture; development of sensitivity toward sculptural ideas.

341 Prints (5)

Prereq: 8 hrs printmaking. Supervised studio experience in printmaking media of student's choice (intaglio, lithography, relief, and/or serigraphy); includes demonstrations and lectures on related topics. Emphasis on development of techniques and concepts of printmaking.

342 Prints (5)

Prereq: 341. Continuation of 341.

343 Prints (5)

Prereq: 342. Continuation of 341-342.

351 Graphic Design: Junior Studio (5)

Prereq: 12 hrs 200-level graphic design, portfolio review, and perm. In-depth color theory and color design studies. Projects focusing on use of color in visual communication concepts and graphic design applications.

352 Graphic Design: Junior Studio (5)

Prereq: 351. Practical and experimental type design including typesetting, reproduction, and printing processes.

353 Graphic Design: Junior Studio (5)

Prereq: 352. The application of visual design concepts and principles. Projects in symbol design and design system applications.

354 Media (5)

Prereq: 8 hrs of graphic design or perm. Time, motion, light, and sound as design and communication tools. Problems in design with film, slides, overhead projection, sound track, and videotape.

355 Film Animation (5)

Prereq: FILM 361 or perm. Design problems in 16mm film animation. Basic methods and camera techniques.

360 Art for Elementary Teachers (6)

Prereq: jr. To provide future elementary teacher with comprehensive understanding of nature of art materials and children's art work.

383 Autopsical Art (3)

Prereq: jr. Nontraditional course designed to provide an alternative approach to thinking about and the making of art.

387 Photo Illustration—Fashion (5)

Prereq: portfolio review and perm. Investigation of tools and uses of applied photography in fashion photography.

388 Photo Illustration—Product (5)

Prereq: portfolio review and perm. Investigation of tools and uses of applied photography in product photography.

389 Photo Illustration—Editorial (5)

Prereq: portfolio review and perm. Investigation of tools and uses of applied photography in architectural and editorial illustration.

391 Photographic Arts (5)

Prereq: 297, portfolio review, and perm. Application of contemporary monochrome materials to selected range of problems within discipline.

392 Photographic Arts (5)

Prereq: 297, portfolio review, and perm. Application of series and sequential imagery to expression in photography.

393 Photographic Arts (5)

Prereq: 297, portfolio review, and perm. Experimental methods and materials (gum bichromate, magazine cuts, photo montage, quickproof, 3-color overlays, Kodachrome, and multiple printing).

394 Advanced Color Printing (5)

Prereq: 297 or portfolio review. Sensitometric control of color printing processes, dye transfer, color separation, and masking.

397 Photographic Communication (5)

Prereq: portfolio review and perm. Structured work in single image used for photographic communication in print media illustration and reportage.

398 Photographic Communication (5)

Prereq: portfolio review and perm. Structured work in use of multiple photographs to report, document, and tell stories in print media.

399 Photographic Communication (5)

Prereq: portfolio review and perm. Structured work in use of multiple color transparencies to produce material in slide presentations.

400 Seminar in the Visual Arts (3)

Prereq: sr and perm. Interdisciplinary course designed to deal with professional issues beyond those pertinent to specific media, to enrich experience in various areas and professional levels, and to permit exchange of information on current issues in art world.

401 Painting Practicum (3)

Prereq: sr and perm. Preparation for sr presentation and portfolio.

405 Painting (5)

Prereq: 307. Advanced problems in painting.

406 Painting (5)

Prereq: 405. Continuation of 405.

407 Painting (5)

Prereq: 406. Continuation for 405-406.

410 Ceramics Practicum (3)

Prereq: sr and perm. Preparation for sr presentation and portfolio.

415 Ceramics: Primitive Techniques (5)

Prereq: 317. Special effects and limitations of raku, pit, wood, sawdust or saggar firing of wheel-thrown and handbuilt objects.

416 Ceramics (5)

Prereq: 415. Sr problems.

417 Ceramics (5)

Prereq: 416. Sr problems.

428 Drawing (4)

Prereq: 329. (not offered every qtr) Continuation of 329.

429 Drawing (4)

Prereq: 428. (not offered every qtr) Continuation of 329 and 428.

430 Sculpture Practicum (3)

Prereq: sr and perm. Preparation for sr presentation and portfolio.

433 Sculpture: Metals (5)

Prereq: 333, 334, and perm. Advanced techniques in metal sculpture; emphasis on aesthetic development, projects based on individual student interest.

434 Sculpture: Fabrication (5)

Prereq: 333, 334, 8 hrs sculpture, and perm. Continuation of 334.

438 Sculpture (5)

Prereq: 433, 434, and perm. Contemporary issues in sculpture.

440 Prints Practicum (3)

Sr presentation and portfolio.

441 Prints (5)

Prereq: 343. Emphasis on personal and professional development in printmaking.

442 Prints (5)

Prereq: 441. Continuation of 441.

443 Prints (5)

Prereq: 442. Continuation of 441-442.

450 Design Practicum (3)

Prereq: sr and perm. Preparation for sr presentation and portfolio.

451 Graphic Design: Senior Studio (5)

Prereq: 27 hrs of graphic design and perm. 2- and 3-dimensional graphic design with emphasis on professional and creative solutions. Problems in research and production.

452 Graphic Design: Senior Studio (5)

Prereq: 451 or perm. Design problems carried through all professional stages. Examination of design in context of various applications.

453 Graphic Design: Senior Studio (5)

Prereq: 452 or perm. Emphasis on individual problems and individual professional orientation. Portfolio preparation and presentation. Production of brochure and preparation of resume.

456 Illustration: Senior Studio (5)

Prereq: 357, portfolio review, and perm. Students required to complete series of portfolio-quality studies that focus on personal style and choice of media.

461 Art Experiences in the Elementary School (3)

Prereq: EDSE 351. Emphasizes importance of art in elementary school curriculum. Traces evolution of children's symbols from scribble to realistic representation. Teaching strategies, art materials, appropriate art processes. Field experiences and text.

462 Art Teaching in the Secondary School (3)

Prereq: EDSE 351. Prepares student for realities of secondary school art program environment—physical and intellectual as well as emotional. Develops positive, constructive attitudes and knowledgeable teaching skills. Field experiences and text.

480 Individual Problems (1-5, max 5)

Prereq: sr and perm. Projects, ideas, or explorations that cannot reasonably be made within regular course structures. Requires perm of faculty member prior to registration. Credit as elective only.

481 Individual Readings (1-5, max 5)

Prereq: sr and perm. Reading and research related to studio work. For projects not reasonably part of structure of regular studio courses. Requires perm of faculty member prior to registration. Credit as elective only.

490 Photography Practicum (3)

Prereq: sr and perm. Critical review of portfolio, preparation of resume, and training for interview.

491 Advanced Photographic Arts (5)

Prereq: 393, portfolio review, and perm. Individual problems and seminars.

492 Advanced Photographic Arts (5)

Prereq: portfolio review and perm. Individual problems and seminars.

493 Advanced Photographic Arts (5)

Prereq: portfolio review and perm. Individual problems and seminars.

494 Advanced Publications Photography (5)

Prereq: perm. Advanced work in photographic communication, principally newspaper picture story.

495 Advanced Publications Photography (5)

Prereq: portfolio review. Advanced picture story, essay, and editorial illustration production problems in magazine photographic work.

496 Advanced Publications Photography (5)

Prereq: portfolio review and perm. Advanced slide show production requiring multiple projectors, computer controlled programming, and audio production.

Art History (AH)
211 History of Art (4) (2H)

Survey of western painting, sculpture, and architecture from prehistoric to early Christian. Students advised but not required to enroll in 211, 212, and 213 in sequence.

212 History of Art (4) (2H)

Continuation of 211 from early Christian period of Europe through Renaissance. Students advised but not required to enroll in 211, 212, and 213 in sequence.

213 History of Art (4) (2H)

Continuation of 212 from Baroque to present. Students advised but not required to enroll in 211, 212, and 213 in sequence.

307 History of Photography (4)

Prereq: jr or perm. Historical development of photography from its inception to present including comprehensive study of artistic and technical developments and of major photographers and movements.

320 Greek Art (4)

Prereq: jr or perm. Art of ancient Greece.

321 Roman Art (4)

Prereq: jr or perm. Art of ancient Rome

322 Medieval Art (4)

Prereq: jr or perm. Art of Europe from age of Constantine to art of Giotto.

323 Italian Renaissance Art (4)

Prereq: jr or perm. Art of 15th century Italy.

324 Northern Renaissance Art (4)

Prereq: jr or perm. Art of Northern Europe in 15th and 16th centuries.

325 Art of High Renaissance and Mannerism (4)

Prereq: jr or perm. Art of 16th century Italy.

326 Baroque and Rococo Art (4)

Prereq: jr or perm. Art of 17th and 18th century Europe.

327 Art of the Nineteenth Century (4)

Prereq: jr or perm. European painting and sculpture from French Revolution through Symbolism.

328 Modern Art (4)

Prereq: jr or perm. Art of Europe from 1880 to 1945.

329 The Arts of the United States (4)

Prereq: jr or perm. Art in U.S. from Colonial period to 1865.

330 The Arts of the Orient (4) (2T)

Prereq: jr or perm. Art of India, China, and Japan.

331 Pre-Columbian Art (4) (2T)

Prereq: jr or perm. Preconquest art of Mexico, Central and South America.

332 West African Art (4)

Prereq: jr or perm. The visual art traditions, including sculpture, ceramics, textiles, and architecture, of the forest and savanna zones of West Africa.

333 Central African Art (4)

Prereq: jr or perm. The visual art traditions, including sculpture, ceramics, textiles, and architecture, of the forest and savanna zones of Central Africa.

334 Ancient Near Eastern Art (4)

Prereq: jr or perm. Motifs and monuments of Egypt, Mesopotamia, Assyria, and Babylonia

335 Art Since 1945 (4)

Prereq: jr or perm. Selected studies in visual arts covering developments after 1945, such as Abstract Expressionism, Minimalism, Pop, Post-Modernism, performance, video, electrostatics, etc., to the present. This is a lecture course.

340 Selected Topics in Art History (4)

Prereq: jr or perm. Selected problems in the visual arts, such as interdisciplinary topics, cross-cultural studies, thematic treatments, technical investigations, and approaches to material. Content will vary with each offering of this course. Topic for course will be published during the quarter previous to being offered.

350 Principles of Architecture (4)

Introduction to styles, theories, and structural principles of architecture.

351 Ancient Architecture (4)

Prereq: soph and above. Survey of architectural monuments and their historical settings in Near East, Egypt, Greece, and Rome.

352 Medieval Architecture (4)

Prereq: soph and above. Survey of architectural monuments and their historical setting in early Christian, Byzantine, Romanesque, and Gothic periods.

353 Renaissance and Baroque Architecture (4)

Prereq: soph and above. Survey of architects and monuments from 15th through 18th century.

354 19th and 20th Century Architecture (4)

Prereq: soph and above. Survey of architects and monuments from historical revival styles through recent stylistic trends.

360 Seminar in Art Historiography (4)

Prereq: perm. Investigation of various methodological approaches to study of art.

480 Individual Problems (1-6, max 6)

Prereq: perm. Projects, ideas, or explorations that cannot reasonably be made within regular course structures. Requires perm of faculty member prior to registration. Credit as elective only.

481 Individual Readings (1-6, max 6)

Prereq: perm. Reading and research in art history, which cannot reasonably be made within regular course structure. Requires perm of faculty member prior to registration. Credit as elective only.

Astronomy

See Physics and Astronomy.

Aviation (AVN)

Flight course fees may be adjusted. Please consult the quarterly Schedule of Classes for current information.

110 Private Pilot Ground Instruction (4)

(fall, spring) 40 hrs ground instruction covering radio navigation, meteorology, FAA regulations, communications, aircraft construction, and performance data to meet requirements of private pilot's written exam. 2 lec.

240 Private Pilot Flight Course (4)

Prereq: FAA written passed or perm. 43-1/2 hrs flight training and related lectures including primary flight maneuvers and cross-country flying. Meets requirements for private pilot's certificate. 1 lec, 3 lab. Course fee \$2,900.

240A Introduction to Flight (2)

Prereq: 110 and perm. 14 hrs of dual and solo flight instruction in fundamentals of flight. Meets AFROTC curriculum requirements. Course fee \$870.

240B Introduction to Flight II (1)

Prereq: 240A and perm. 14 hrs of dual and solo flight instruction. Introduction to cross-country navigation and use of radio aids to navigation. Course fee \$995. Two hrs simulator.

240C Introduction to Flight III (1)

Prereq: 240B and perm. 14 hrs of dual and solo flight instruction in cross-country navigation by pilotage, dead reckoning, and use of VOR, NDB, RNAV, and HSI. Flight test preparation for private pilot certification included. Course fee \$980.

300 Aviation Laws and Regulations (3)

(winter only) Student obtains knowledge, background, and understanding of aviation laws and regulations. Emphasis will be placed upon areas of legal concepts of operation, contracts, insurance and liability, regulatory statutes, and case law. In addition, various regulations of FAA, DOT, NTSB, and ICAO will be covered. 2 lec.

310 Advanced Aeronautics for Commercial Pilot Ground Instruction (4)

Prereq: private pilot's certificate or perm. (winter only) 40 hrs ground instruction covering advanced aerodynamics, radio navigation, FAA regulations, aircraft construction and performance, theories of flight, weight and balance, and instruments to meet requirements of commercial written exam. 2 lec.

320 Advanced Aircraft Systems (2)

Prereq: private pilot's certificate. (winter only) In-depth study of simple and complex aircraft fuel, electrical, hydraulic, and environmental systems. Subjects to be covered will be pertinent information for the FAR's, AIM, NTSB Part 830. 1 lec.

340 Commercial Flight Course, Part I (4)

Prereq: private pilot's certificate. 40 hrs flight training consisting mainly of cross-country. 3 lab. Course fee \$2,715.

343 Commercial Flight Course, Part II (4)

Prereq: private pilot's certificate and 340 or perm. 41 hrs flight training consisting mainly of solo cross-country to build flying time toward higher rating. 7 hrs complex airplane time included. 3 lab. Course fee \$3,050.

350 Instrument Ground Instruction and Air Traffic Control (4)

Prereq: private pilot's certificate and perm. (fall, spring) 40 hrs of ground instruction covering various navigation systems and procedures, aircraft radios and communications, instrument flying, and air traffic control procedures. Includes functions of ATC centers, approach control, towers, and flight service stations. FAA regulations included. Meets all requirements for instrument pilot written exam. 2 lec.

360 The National Airspace System (3)

Prereq: private pilot's certificate or perm. (winter only) Knowledge, background, and understanding of the Federal Aviation Administration's comprehensive plan for modernizing and improving air traffic control and airway facilities services from now to the year 2000. Specific areas to be addressed include air traffic services, flight service stations, ground-to-air services, and maintenance. 2 lec.

390 The Air Transportation Industry (3)

Prereq: MGT 200 or above or perm. (winter only) To give a broad understanding of the air transportation industry and the major management functions with an airline. Topics cover economics of airlines; managerial aspects; international aviation; career planning; and general aviation.

400 Commercial Flight Course, Part III (4)

Prereq: FAA written passed or perm. 37 hrs of instruction of flight by sole reference to instruments. 3 lab. Course fee \$2,615.

410 Fundamentals of Aviation for Teachers (4)

Prereq: 110 or perm. Comprehensive course covering aeronautical knowledge required of private pilot: navigation, weather, federal regulations, theory of flight, aircraft performance, radio communications and navigation, and fundamentals of instruction for teachers of aviation ground instruction courses.

415 Instrument Simulator Proficiency Course (2)

Prereq: Instrument Rating. Provides comprehensive review of instrument procedures, publications, regulations, weather analysis, aircraft performance, planning, and emergency procedures for instrument-related pilot who wishes to regain instrument proficiency. 10 lessons require minimum of 15 hrs ground instruction review and 20 hrs simulator practice. Course fee \$1,300.

420 Commercial Flight Course Part IV (4)

Prereq: FAA written passed and 400. 35 hrs of night instruction including 10 hrs in complex airplane. 3 lab. Course fee \$3,115.

425 Commercial Flight IV (Multi-Engine Option) (6)

Prereq: FAA written passed and 400. 42 hrs of dual and solo flight instruction with 11 hrs of instruction in multi-engine aircraft to meet experience requirements for commercial pilot's certificate with single and multi-engine ratings. Course fee \$4,265.

430 Multi-Engine Flight Course (2)

Prereq: pilot's certificate and perm. 10 hrs of procedures with both engines operative, with 1 engine inoperative (feathered), single engine speeds, effects of airplane configuration on engine-out performance. Enroute operations, single engine approaches and landings. 2 lab. Course fee \$2,360.

435 Flight Engineer (4)

Prereq: Commercial Certificate Multi-Engine Instrument. Comprehensive course covering aeronautical knowledge acquired for the flight engineer rating, including federal aviation regulation, aerodynamics, meteorology, aircraft manuals, and aircraft systems.

440 Flight Instructor Ground Instruction (4)

Prereq: commercial pilot's certificate or perm. (winter only) 40 hrs ground instruction on FAA regulations and publications, weather, advanced flight computer operations, radio navigation, advanced aircraft and engine performance, and fundamentals of instructing. Covers requirements for night instructor written exams. Offered once a year. 2 lec.

445 Flight Instructor Course (3)

Prereq: FAA written passed, commercial pilot's certificate, and 425, perm. 20 hrs review of commercial course with emphasis on how to instruct and analysis of maneuvers. 3 lab. Course fee \$2,070.

450 Instrument Instructor Ground Instruction (3)

Prereq: commercial pilot's certificate. 30 hrs review of instrument course with emphasis on how to instruct instrument flying. Covers requirements for instrument written exam. 2 lec.

455 Instrument Instructor Flight Course (3)

Prereq: FAA written passed, commercial pilot's certificate, and 445. 20 hrs review of instrument course with emphasis on how to instruct on instruments. 3 lab. Course fee \$1,720.

460 ATP Ground Instruction (4)

Prereq: FAR 61.153. Forty hrs advanced course placing major emphasis on specific requirements and duties of airline transport pilots in accordance with Federal Aviation Regulations. Provides aeronautical requirements for airline transport pilot written exam. 2 lec.

465 Flight Instructor Operations—Multi-Engine (2)

Prereq: flight instructor certificate with multi-engine rating and perm. 5 hrs flight instruction in multi-engine operations and instructional practices, analysis of maneuvers, and practice teaching of multi-engine procedures; plus 1 hr lec/disc per wk. Course fee \$1,615.

470 ATP Multi-Engine Flight Course (2)

Prereq: FAA commercial pilot's certificate with multi-engine and instrument ratings, FAA ATP written passed, and perm. Comprehensive course covering aircraft systems, weight and balance, FARS, and multi-engine aerodynamics. 7 hrs flight including proficiency maneuvers and instrument procedures. Course fee \$1500.

475 Internship in Aviation Operations (1-15)

Prereq: perm. Internship program in selected fields of aviation under direction of faculty member.

Bacteriology

See Biological Sciences: Microbiology

Biological Sciences

Biological Sciences Major (B.S.)

(Major code #BS2121)

The major requirements for the B.S. in biological sciences are a minimum of 50 quarter hours in approved departmental courses which must include the following: 170, 171, 172, 173, 325, 342, 343, and one course from each of the following areas: (a) anatomy/organismal: 301, 303, 430, 435; (b) ecology/evolution: 275, 425, 479, 481; (c) biochemistry: 463 or CHEM 490 and 491; (d) other biol sci: PBIO 111, MICR 411. Extradepartmental courses required for the B.S. degree are: CHEM 151, 152, 153, and 301, 302 or 305, 306, 307, MATH 263A and B; PHYS 201, 202, 203, PSY 121 or MATH 250B.

In addition to major programs, the Department of Biological Sciences offers a minor in biological sciences. Requirements for the minor consist of a minimum of 28 credit hours of coursework in biological sciences, including BIOS 170, 171, 172, 173, and 325, and at least two other courses at the 300 level or above.

Unless otherwise indicated, BIOS/MICR departmental courses may be retaken only once.

Microbiology Major (B.S.)

(Major code #BS0411)

The minimum major requirements for the ASIA-accredited B.S. in microbiology are as follows: MICR 325, 411, 412, 413, 415, 419, 425, and at least 10 credits from the following: 414A, 414B, 416, 418, 441. Extradepartmental courses required include BIOS 170, 171, 172, 173, CHEM 151, 152, 153, 241, 242, 301, 302, 490, 491, 492, PHYS 201, 202, 203, MATH 163A, 163B, CS 220.

A minor in microbiology requires a minimum of 24 hours of microbiology courses which must include MICR 411 and 412. In addition, the prerequisites for MICR 411 are required: 10 hours biology, CHEM 301.

Unless otherwise indicated, BIOS/MICR departmental courses may be retaken only once.

Other Programs

Other programs are outlined in the College of Arts and Sciences section of this catalog for students preparing for dentistry, environmental biology, exercise physiology, marine biology, clinical laboratory science (formerly medical technology), medicine, wildlife biology, and biological sciences-nutrition, any one of which may also lead to a baccalaureate degree with a major in biological sciences. The outlined curricula should be consulted regarding the specific requirements for each; they may contain different sets of requirements from those given in the above paragraph. Students who wish to teach and also receive the B.S. degree with a major in biological sciences or microbiology must satisfy requirements for both teaching certification and the major.

Biological Sciences (BIOS)

100 The Animal Kingdom (4) (2N)

(winter) Designed for nonscience majors. A broad survey of all of the major groups of animals. Aspects of the biology, reproduction, ecology, and evolution of the animal phyla. Credit not allowed for both 100 and 173.

103 Human Biology (5) (2N)

Designed for nonscience majors. Humans as living organisms: our origins, ecology, and inheritance; and functioning of our body systems. 5 lec.

130 Principles of Human Anatomy and Physiology I (5) (2N)

(Chillicothe and Zanesville campus only) Introduction to the structure and function of the human body in the study of cells, tissues, and the integumentary, skeletal, and muscular systems. Cat used for dissection. 3 lec, 4 lab.

131 Principles of Human Anatomy and Physiology II (5) (2N)

Prereq: 130. (Chillicothe and Zanesville campus only) Introduction to the structure and function of the human body in the study of the digestive, urinary, reproductive, cardiovascular, lymphatic, respiratory, endocrine, and nervous systems. Cat used for dissection. 3 lec, 4 lab.

170 Introduction to Zoology (5)

Prereq: fr: h.s. chem. and ACT 23 or SAT 1000; nonfr: CHEM 152 or 122. (summer, fall) Cellular and molecular biology. Designed for science majors and preprofessional students. Introduction to the chemistry of life, cell structure and function, and the principles of inheritance. Laboratories enhance lecture coverage of major topics with emphasis on experimental design and critical analysis. Credit not allowed for both 170 and any of the following: BIOL 101, BOT 110, BIOS 101, PBIO 101, PBIO 110, ZOOL 150, ZOOL 170. 4 lec, 3 lab.

171 Introduction to Zoology (5) (2N)

Prereq: C- or better in 170 or PBIO 110. (summer, winter) Animal organ systems. Designed for science majors and preprofessional students. Introduction to multicellular life, organ systems, physiology, and animal development. Laboratories enhance lecture coverage of major topics with dissections and experiments, emphasis is on comparative strategies within the animal kingdom. 4 lec, 3 lab.

172 Introduction to Zoology (3) (2N)

Prereq: 171, C or better. (fall, spring) M. Nossek, J. Rovner. Evolutionary biology. Designed for science majors and preprofessional students. Introduction to the principles of evolution, ecology, and behavior. 3 lec.

173 Introduction to Zoology (1) (2N)

Prereq: 171, C or better. (fall, spring) M. Nossek. Laboratory survey of the major phyla of the animal kingdom to reveal evolutionary relationships and structural and functional characteristics. Credit not allowed for both 100 and 173. 2 lab.

220 Conservation and Biodiversity (4) (2A)

Credit not allowed for both 220 and 481. (winter) M. White. Designed for nonscience majors. Introduces the student to the modern field of conservation biology and the role of genetics, ecology, life history, and biogeography in the preservation and maintenance of biodiversity. Case studies of endangered animal and plant species will be highlighted. 4 lec.

225 Genetics in Human Society (3) (2N)

Prereq: h.s. or college biology (for nondepartmental majors: no credit for those who have credit for 325). (winter) M. White. Basic principles of inheritance in humans. Normal and abnormal chromosome constitutions, gene-protein interrelationships, and factors that cause mutations of genes and chromosomes. Significance of genetics in life of human society. 3 lec.

275 Animal Ecology (4)

Prereq: 1 college-level course in BIOS or PBIO. (fall) S. Reilly. Study of the natural environment and relations of organisms to each other and their surroundings. Individual, population, and community dynamics in terrestrial and aquatic ecosystems are considered in natural and human influenced environments. 4 lec.

297T Zoology Tutorial (1-15)

Prereq: perm. (fall) M. Chamberlin. Special courses offered to students in Honors Tutorial program.

298T Zoology Tutorial (1-15)

Prereq: perm. (winter) M. Chamberlin. Continuation of 297T. See 297T for description.

299T Zoology Tutorial (1-15)

Prereq: perm. (spring) M. Chamberlin. Continuation of 297T-298T. See 297T for description.

300 Anatomy and Histology (6)

Prereq: 171, C or better, or perm; not open to fr; may be taken concurrently with 345. (spring) R. Hikida. Gross and microscopic structure of the basic tissues and organ systems of the human body. Cat used for dissection. Human systems also used. No credit if 301 or 303 taken. 4 lec, 4 lab.

301 Human Anatomy (6)

Prereq: majors only, C in 172 and 173; not open to fr; no credit if 302 taken. (fall, winter) F. Hagerman. Structure of body systems with particular emphasis on human musculoskeletal system. Cat used for dissection. 3 lec, 6 lab.

302 Human Anatomy for Nonmajors (6)

Prereq: 103 or 171 or BIOL 101; not open to fr. (fall, winter) F. Hagerman. Structure of body systems, with particular emphasis on human musculoskeletal systems. Cat used for dissection. 3 lec, 6 lab. No credit for BIOS majors; no credit if 301 taken.

303 Comparative Vertebrate Anatomy (6)

Prereq: 172, 173, C or better, not open to fr. (winter) S. Reilly. Comparative study of the anatomy of vertebrates. Structure, function, and evolution of the vertebrate body forms and organ systems are compared. Extensive lab work covers each of the major classes of vertebrates. 3 lec, 6 lab.

311 Computer Simulation in Biology (4)

Prereq: MATH 163B or MATH 263B. (spring) W. Holmes. Introduction to computer modeling and simulation in biological research. Designed to illustrate the power and limitations of computer simulation by having students code (in BASIC) simulation programs for a number of different biological phenomena. Quantitative models used include models of enzyme kinetics, population biology, population genetics, diffusion models, and compartmental models in physiology. 3 lec, 2 lab.

325 General Genetics (5)

Prereq: 172, 173, C or better, or PBIO 111 (formerly BOT 111). (fall, spring) C. Atkins, M. White. Principles and concepts of genetics as revealed by classical and modern investigation. 5 lec.

326 Laboratory Genetics (4)

Prereq: 325 (winter, alt. yrs) J. Jollick, M. White. Experiments in basic molecular genetics, including nucleic acid purification and analysis. In vitro recombinant DNA techniques designed to familiarize the student with current laboratory procedures in molecular genetics. 8 lab.

342 Principles of Physiology I (3)

Prereq: CHEM 153; 171, C or better. (winter) *M. Chamberlin, J. Howell*. Function of animal cells and organs emphasizing the physical and chemical principles underlying physiological processes. Focus on membrane properties of excitable and nonexcitable cells, chemical messengers and regulators, fluid balance, and nutrient balance. 3 lec.

343 Principles of Physiology II (3)

Prereq: C- or better in 342. (spring) *M. Chamberlin, J. Howell*. Physiological processes underlying locomotion, sensation, behavior, circulation, gas exchange, and temperature relations. 3 lec.

345 Human Physiology (4)

Prereq: 300 or 301 or 302 or concur, not open to fr. (spring) *F. Hagerman*. Functions of various systems as applied to humans. Special reference to physiological adaptations to environment and regulatory functions. For education, clinical laboratory science, exercise physiology, health and sports sciences, dietetics, and prephysical therapy students only.

346 Human Physiology Laboratory (3)

Prereq: anatomy; 345 or with 345. (spring) *R. Gilders, T. Murray*. Lab experiences designed to complement material covered in 345. For prephysical therapy students; others by perm only. 6 lab.

352 Biomechanics (4)

Prereq: 301 or 302. Analysis of human motion based on anatomical and mechanical principles. 4 lec. Credit not allowed for both 352 and HPES 302.

364 Forensic Biology (4)

Prereq: 171 or perm; for forensic chemistry students only. (spring, alt. yrs) *K. Goodrum, O. Heck*. Provides experience in microscopic techniques; identification of hair and fibers, identification and grouping of blood including chemical, immunological, and electrophoretic methods, DNA fingerprinting, and identification of semen. 2 lec, 4 lab.

376 Field Ecology (4)

Prereq: BIOS major, C or better in 172 and 173. (spring) *G. Svendsen*. Analysis of field problems in ecology; consisting of design of field experiments and hypothesis testing, techniques to gather and analyze field data, interpretation of results, and report writing. 1 lec, 6 lab.

382 Topics in Zoology for Nonmajors (1-3, max 8)

Prereq: BIOS 101 or BIOL 101 or PBIO 101, perm of specific instructor. Individual or small-group study, under supervision of instructor, of topics not otherwise available to undergrad students. Credit not applicable toward major and minor in biological sciences or microbiology. Special registration with departmental secretary absolutely required.

382A Clinical Laboratory Observation (1)

Prereq: clinical laboratory science major. *E. Rowland*. Gives student opportunity to observe activities characteristic of clinical lab. Observations made in hospital setting so that, along with other background information provided, student may be better able to evaluate lab work as career choice.

384 Bioethics: Bioethical Problems in Biology and Medicine (5)

Prereq: 9 hrs BIOS or MICR or PBIO. *D. Mowry*. (Lancaster campus only) Ethical problems arising from rapid advances in biological and biomedical research. Topics include: human experimentation, fetal research, informed consent, death with dignity, euthanasia, reproductive advances, sex control, test tube babies, surrogate mothers, public policy and bioethics, health care delivery, mental health, and genetic screening. 5 lec.

390H Biology and the Future of Man (5)

Prereq: perm. *D. Mowry*. (Lancaster campus only) Course covers human sexuality, physiological effects of environmental pollutants, drugs of abuse, and introduction to advances in biological technology that influence future of humans. 5 lec.

397T Zoology Tutorial (1-15)

Prereq: perm. (fall) *M. Chamberlin*. Special courses offered to students in Honors Tutorial program.

398T Zoology Tutorial (1-15)

Prereq: perm. (winter) *M. Chamberlin*. Continuation of 397T. See 397T for description.

399T Zoology Tutorial (1-15)

Prereq: perm. (spring) *M. Chamberlin*. Continuation of 397T-398T. See 397T for description.

401 Advanced Human Anatomy (6)

Prereq: 301 or 303 or perm. (winter) *R. Staron*. In-depth morphological study of body systems in the human using lecture material, prosected cadaver specimens, X-rays, and models. 4 lec, 4 lab. No audit, no pass/fail.

402 Human Neuroscience (3)

Prereq: prephysical therapy major, C or better in 301 (or 302) and 345; or perm. (fall) *R. DiCaprio, L. Luckenbill, E. Peterson, M. Rowe*. Study of human brain, emphasizing anatomy with functional and clinical considerations. Students will do a complete brain dissection. Students will be assessed by means of a lab practical and two written exams. 2 lec, 2 lab.

406 Vertebrate Embryology (6)

Prereq: 300, or 303, C or better. (winter, spring) *L. Ross*. Development from gametogenesis to organogenesis in representative vertebrate types. Lab emphasis given to early chick and pig development. 4 lec, 4 lab.

407 Developmental Biology (4)

Prereq: perm. (spring, odd years) *L. Luckenbill*. Mechanisms of animal development at tissue, cellular, and molecular levels of organization, with emphasis on experimental approaches. 4 lec.

408 Histology (6)

Prereq: 403, C or better. (winter) *B. Palmer*. Cells, tissues, and organ systems with regard to their morphological and physiological properties. 4 lec, 4 lab.

409 Neurobiology I (4)

Prereq: 403, C or better. (fall, alt. yrs) *E. Peterson, M. Rowe*. Introduction to neurobiology, beginning with in-depth consideration of anatomy and physiology of neurons, and using these concepts to develop understanding of vertebrate sensory systems: vision, audition, somesthesia, lateral line sense, chemical senses, infrared and magnetic field detection, electroreception. Emphasizes physical, ecological factors that influence design of sensory systems. 4 lec.

410 Neurobiology II (4)

Prereq: 409 or perm. (winter, alt. yrs) *E. Peterson, M. Rowe*. Builds on Neurobiology I to develop understanding of movement control and sensory-motor integration from molecular to behavioral levels. Learning, emotion, social behavior. 4 lec.

411 Methods in Computational Neuroscience (4)

Prereq: perm, 409 or 412 recommended. (winter) *W. Holmes*. Lecture, discussion, and computer lab. Introduction to mathematical and computational techniques for modeling single neurons and networks of neurons. Cable theory; Rall's model; compartmental models; introduction to available software for simulating neurons and networks of neurons; modeling of action potentials, Hodgkin-Huxley equations, synaptic conductances, and voltage-dependent conductances; Hebbian synapses; synaptic modification rules; quantal analysis; neural networks. Students are expected to complete a simulation project using one of the available software packages. 4 lec, lab arr.

412 Molecular and Cellular Neurobiology (4)

Prereq: C or better in 172 and 173. (winter) *R. Colvin*. Intended for students interested in neuroscience. Introduction to the molecular and cellular basis of the functioning of the nervous system. Topics to be covered include morphology, excitable properties of neurons, mathematical modeling, synaptic function, cell biology, and neuronal development. 4 lec.

420 Animal Locomotion (4)

Prereq: 303 or perm. (winter) Introductory course that describes basic mechanical, behavioral, and ecological aspects of animal locomotion. Some anatomy and physics background required.

425 Evolutionary Genetics (4)

Prereq: 325, PSY 121 or equiv. (fall, even yrs) *M. White*. Basic concepts of population genetics

(mutation, gene flow, natural selection, genetic drift). Rates, patterns, and processes of molecular evolution at the population and species level. 4 lec.

428 Human and Medical Genetics (4)

Prereq: BIOS 325 or MICR 325 or perm. (fall) *C. Atkins*. Basic principles of Mendelian, molecular, and population genetics as applied to gene expression in the development, metabolism, and diseases of humans. The role of genetics in medicine and counseling will be explored. 4 lec.

429 Marine Biology (5)

Prereq: 172, 173, perm; 430 recommended (spring) *W. Hummon*. Biological processes in marine and estuarine habitats, and adaptations for life at sea; emphasis on environmental variables affecting distribution, abundance, and dynamics of marine plants and animals. Includes 5-day field trip to temperate marine environment late in qtr; estimated cost \$80 per student; limited to 20 students. 5 lec, field trip.

430 Invertebrate Biology (6)

Prereq: 172, 173, or perm. (winter) *W. Hummon*. The major taxa of marine and freshwater invertebrates: structure, function, development, evolutionary relationships, and ecological adaptations. 4 lec, 4 lab.

431 Limnology (5)

Prereq: 172, 173, PBIO 111, CHEM 153, or equiv, or perm. (spring, alt. yrs) *W. Hummon*. Physical, chemical, and biological processes in lakes (analogous to those of oceanography), with emphasis on the analysis of data; distribution, abundance, and dynamics of plant and animal populations, structure, organization, and productivity of communities; lab covers both standing and running freshwater habitats, with emphasis on acid mine pollution. 4 lec, 3 lab.

434 Biology of Spiders (5)

Prereq: 172, 173, or perm. (winter) *J. Rovner*. Morphology, physiology, behavior, ecology, and classification of spiders. Lab emphasizes taxonomic studies. 3 lec, 4 lab.

435 Entomology (6)

Prereq: 172, 173 or PBIO 111 or perm. (spring) *W. Romoser*. Overview of insect biology. Lecture: insect morphology, physiology, behavior, systematics, evolution, and ecology. Lab: emphasis on insect collection and identification. 4 lec, 4 lab.

441 Parasitology (6)

Prereq: 172, 173. (spring) *O. Heck*. Etiology of human parasites, their transmission, diagnosis, and prevention. 3 lec, 6 lab.

445 Physiology of Exercise (5)

Prereq: 345; 446 conc. For prephysical therapy, exercise physiology, dietetics, and athletic training students only. (fall) *F. Hagerman*. Fundamental concepts and application or organ systems' responses to exercise: special reference to skeletal muscle metabolism, energy expenditure, cardiorespiratory regulation, and training and environmental adaptations. 4 lec. (Same as HPES 414.)

446 Physiology of Exercise Laboratory (3)

Prereq: 345; 445 conc. For prephysical therapy, exercise physiology, dietetics, and athletic training students only. (fall) *R. Gilders, T. Murray*. Lab experiences designed to complement 445. 6 lab. (Same as HPES 415.)

448 Cell Physiology (4)

Prereq: organic chemistry, physics recommended. (winter) *J. Wilson*. Analysis of fundamental cellular activities with emphasis on membrane structure and function, bioelectric potentials, contractile mechanisms. Also includes mitochondrial and chloroplast structure and function, bioluminescence, chromatophore activity, cell growth and development, and evolution of eukaryotic and prokaryotic cells. 4 lec.

449 Cell Physiology Laboratory (3)

Prereq: 448, or with 448 or perm. (winter) *J. Wilson*. Lab experiments designed to illustrate experimental bases of principles of cell chemistry and physiology. 6 lab.

450 Principles of Endocrinology (4)

Prereq: 342 or 460 or 448 recommended. (winter) *A. Loucks, R. Portanova*. Endocrine control of mammalian homeostasis and metabolism. 4 lec.

452 Reproductive Physiology (3)

Prereq: 450 recommended, perm. (spring, alt. yrs) *F. Murray*. Reproductive physiology, development, maturation, reproductive cycles, gametogenesis, fertilization, implantation, pregnancy, lactation, and environment and behavior. Emphasis on mammals.

457 Animal Systematics (4)

Prereq: 172, 173 and 325; 477 or 479. (fall, alt. yrs) *S. Moody*. Principles and methods of systematic zoology. Numerical methods and hypothetico-deductive reasoning applied to study of organismic diversity (taxonomy) and geographic distribution (biogeography). Use of computer stressed. 3 lec, 2 hr disc. and computer work.

460 Animal Physiology (4)

Prereq: 172, 173; org chem, phys recommended. (spring) *J. Wilson*. Principles of animal physiology with emphasis on comparative, regulatory, and adaptive aspects of neuromuscular and neuroendocrine regulation, circulation, excretion, and osmotic and temperature regulatory mechanisms. 4 lec.

461 Animal Physiology Laboratory (3)

Prereq: 460, or concurrent, or perm. (spring) Lab exercises designed to illustrate experimental basis of principles covered in 460. 6 lab.

463 Cell Chemistry (4)

Prereq: CHEM 302, CHEM 123 for HEFN. (fall) *J. Wilson, L. Wince*. Chemistry of carbohydrates, lipids, proteins, and nucleic acids. Principles of enzyme activity and kinetics; metabolic pathways and regulations. 4 lec.

464 Physiological Chemistry Lab (3)

Prereq: with or following 463 or 448. (fall, winter) *J. Gault, J. Wilson*. Basic procedures in qualitative and quantitative analysis of biological compounds and reactions. 6 lab.

466 Neurophysiology (4)

Prereq: 343 or 448 or 460, or perm. (winter, odd yrs) *W. Costello*. Basic aspects of cellular neurobiology; overall introduction to neurophysiology using an evolutionary approach to study excitable cells, from simple to complex nervous systems. 4 lec and student seminars.

467 Neurophysiology Laboratory (2)

Prereq: 466, or concurrent. (winter, odd yrs) *W. Costello*. Lab sessions using advanced techniques in neurophysiology to illustrate lecture topics in 466. Training in manufacture and use of intra- and extracellular electrodes. 4 lab.

468 Ichthyology (4)

Prereq: 303, 343 or 460 or 448. (spring, alt. yrs) *J. Eastman*. Lecture course emphasizing selected aspects of biology of major families of freshwater and marine fishes. Topics include morphology, physiology, taxonomy, evolution, ecology, behavior, and zoogeography. 4 lec.

470A,B,C,D Clinical Laboratory Science Internship

52-week clinical internship includes theoretical and practical coursework in all phases of clinical lab science at accredited school of clinical laboratory science. Required for certification as a clinical laboratory scientist

471 Ornithology (5)

Prereq: 479. (fall) *D. Miles*. Bird biology, including discussions on anatomy, physiology, conservation biology, life histories, and role of ornithology in current ecological and evolutionary theory. 4 lec, 3 lab, and field.

472 Herpetology (5)

Prereq: 20 hrs BIOS including 303 or 460 or equiv. (spring) *S. Moody*. Biology of amphibians and reptiles. Lectures emphasize anatomy, physiology, ecology, behavior, taxonomy, and geography. Labs and field trips emphasize species of Ohio and families of U.S.A. 3 lec, 4 lab, and field.

473 Animal Behavior (5)

Prereq: 172, 173, (winter) *J. Royner*. Ecological, physiological, and developmental aspects of animal behavior, interpreted from the perspective of evolutionary biology. 5 lec.

474 Mammalogy (6)

Prereq: 172, 173. (fall) *G. Svendsen*. Mammals; their origin, evolution and adaptations, geographical distribution, ecology, and systematics. Emphasis on local fauna. 4 lec, 4 lab, and field.

475 Sociobiology (3)

Prereq: 479 or perm. (spring, alt. yrs) *G. Svendsen*. Current understanding of how and why animal social behavior evolved, including spacing, mating, and parental behavior of solitary as well as social animals. Lectures, reading, and reports. 3 lec.

477 Population Ecology (4)

Prereq: 275, 376, PSY 121 or equiv. (winter, even yrs) *D. Miles*. Major theories and concepts in population and evolutionary ecology. Emphasis on theoretical, field, and experimental studies pertaining to growth and regulation of populations; population interactions, including predation and competition, distribution and abundance, and life history theory. 4 lec.

478 Community Ecology (4)

Prereq: 477 or equiv and perm. (winter, odd yrs) *D. Miles*. This course will provide a theoretical and empirical examination of the description, structure, and organization of communities. Emphasis will be placed on mathematical models that describe the biotic processes that mold community structure. Further consideration of null models in ecology and historical effects will be included. 4 lec.

479 Evolution (4)

Prereq: 325. (winter) *G. Svendsen*. Current concepts of evolutionary processes; sources of variation, agents of change, natural selection and adaptation, speciation and macroevolution. 4 lec.

480 Biological Research Methods (2-4)

Prereq: perm.

481 Animal Conservation Biology (4)

Prereq: perm. (spring) *D. Miles, M. White*. The roles of population genetics, population and community ecology, biogeography, systematics, and paleobiology in the study of biodiversity, design of nature reserves, and the recovery of endangered species. Discussion of extinction as a process, the effects of human-induced habitat degradation on loss of species diversity, and the role of reserves in protection of animal species.

482 Topics in Zoology (1-6, max 8)

Prereq: 172, 173 and 6 hrs BIOS; 2.5 g.p.a. in BIOS courses, perm from specific professor. Individual or small-group study of specialized topics in zoology under supervision of instructor. Special registration with departmental secretary absolutely required

485 Undergraduate Research (1-3, max 12)

Prereq: 20 hrs and 2.5 g.p.a. in BIOS, perm from specific professor. Individualized and directed research. Students select topics or are directed into possible research areas. Special registration with departmental secretary absolutely required.

485H Undergraduate Research (1-4, max 12)

Prereq: 3.2 g.p.a. in BIOS, perm from specific professor. Individualized and directed research. Students select topics or are directed into possible research areas. Special registration with departmental secretary absolutely required.

495H Undergraduate Research (Thesis) (3-9, max 15)

Prereq: 485H, 3.0 g.p.a. in sciences, sr. Independent departmental honors research under supervision of staff member. Student should enroll qtr he or she expects to complete thesis. Special registration with departmental secretary absolutely required.

497T Tutorial Senior Thesis (1-15)

Prereq: perm (fall) *M. Chamberlin*. Special courses offered to students in Honors Tutorial program.

498T Tutorial Senior Thesis (1-15)

Prereq: perm (winter) *M. Chamberlin*. Continuation of 497T. See 497T for description.

499T Tutorial Senior Thesis (1-15)

Prereq: perm (spring) *M. Chamberlin*. Continuation of 497T-498T. See 497T for description.

Microbiology (MICR)**201 Elementary Microbiology (4) (2N)**

Prereq: one qtr CHEM and BIOS or PBIO. (Chillicothe and Zanesville campus only, spring) Medical microbiology; topics include microbial and fungal growth, metabolism, and genetics; antimicrobial chemotherapy; principles of immunology, microorganisms, and infectious diseases. 3 lec, 2 lab.

211 Environmental Microbiology (4) (2A)

Prereq: one qtr BIOS or PBIO or chemistry or perm. (fall, spring) *R. Downey, E. Rowland*. Natural microbial activities, their function in waste and pollution reclamation and disposal, water purification, food production and spoilage, and in public health. 4 lec.

212 Environmental Microbiology Laboratory (2) (2A)

Prereq: 211, or concurrent. (spring) *E. Rowland*. Characteristics and activities of microbes of special relevance to humans' welfare and those affecting maintenance of environmental quality. 4 lab.

297T Microbiology Tutorial (1-15)

Prereq: perm. (fall) *M. Chamberlin*. Special courses offered to students in Honors Tutorial program.

298T Microbiology Tutorial (1-15)

Prereq: perm. (winter) *M. Chamberlin*. Continuation of 297T. See 297T for description.

299T Microbiology Tutorial (1-15)

Prereq: perm. (spring) *M. Chamberlin*. Continuation of 297T-298T. See 297T for description.

325 General Genetics (5)

Prereq: BIOS 172, 173, C or better, or PBIO 111. (fall, spring) *C. Atkins, M. White*. Principles and concepts of genetics as revealed by classical and modern investigation. 5 lec.

326 Laboratory Genetics (4)

Prereq: 325. (winter, alt. yrs) *J. Jollick, M. White*. Experiments in basic molecular genetics, including nucleic acid purification and analysis. In vitro recombinant DNA techniques designed to familiarize the student with current laboratory procedures in molecular genetics. 8 lab.

397T Microbiology Tutorial (1-15)

Prereq: perm. (fall) *M. Chamberlin*. Special courses offered to students in Honors Tutorial program.

398T Microbiology Tutorial (1-15)

Prereq: perm. (winter) *M. Chamberlin*. Continuation of 397T. See 397T for description.

399T Microbiology Tutorial (1-15)

Prereq: perm. (spring) *M. Chamberlin*. Continuation of 397T-398T. See 397T for description.

411 General Microbiology (6)

Prereq: 10 hrs BIOS, MICR, PBIO; CHEM 301. (fall, winter, spring) *R. Downey, C. James, S. Maier*. Properties of bacteria, protista, and viruses, and their importance in our environment. Lab training in common microbiological methods. 3 lec, 6 lab.

412 Microbiological Techniques (5)

Prereq: 411, perm. (winter) *S. Maier*. Semi-independent course gives microbiology major extensive experience in use of microbiological techniques and equipment; information retrieval. 2 lec, 8 lab.

413 Pathogenic Bacteriology (6)

Prereq: 411. (spring, odd yrs) *M. Modrzakowski*. Micro-organisms in relation to disease. Disease manifestations, diagnostic and control methods; some aspects of immunity. 3 lec, 6 lab.

414A Animal Virology (4)

Prereq: 411. (spring, even yrs) *B. Biegalka*. Emphasis on the study of those events following virus-cell interaction which are critical to viral replication and pathology. Modern methods of isolation and identification of viruses will also be studied. 4 lec.

414B Animal Virology Laboratory (2)

Prereq: 414A, or concurrent, 411; perm. (spring, even yrs) Limited to microbiology majors, others by perm if seats available. 4 lab.

415 Immunology (6)

Prereq: 411. (winter) Fundamental principles and concepts of immunity and the immune response. Credit not allowed for both 415 and 417. 4 lec, 4 lab.

416 Immunochemistry (6)

Prereq: 415. (spring) In-depth study of the molecules involved in the immune response with emphasis on antibody/antigen interactions and immunochemical techniques. 3 lec, 6 and arr lab.

417 Cellular Immunology (4)

Prereq: perm; credit not allowed for both 417 and 415. (spring) Addresses cells and tissues of the immune system, maturation of lymphocytes, immunogenetics and gene expression, antigen presentation, T cell recognition and activation, effector cells, hypersensitivity, microbial immunity, tumor and transplantation immunology, and autoimmunity. 4 lec.

418 Epidemiology (4)

Prereq: perm. (fall) *W. Romoser*. Modes of spread, cure, and prevention of communicable diseases in humans. 4 lec.

419 Microbial Physiology (6)

Prereq: 411, 463 or equiv. (spring) *S. Maier*. Nutrition, function, and metabolism of micro-organisms; pertinent lab work illustrating fundamental principles and various experimental techniques. 3 lec, 6 lab.

425 Microbial Genetics (3)

Prereq: 325, 411. (winter, alt. yrs) *J. Jollick*. Intended for students majoring in microbiology, molecular biology, or applied biotechnology, microbial genetics is an in-depth study of the genetics of selected prokaryotes and their viruses. Topics include the genetic elements of bacteria, mutations and mutagenesis, lysogeny, and phage conversion, mechanisms of gene transfer and recombinations, regulation of gene expression and recombinant DNA. 3 lec.

441 Parasitology (6)

Prereq: BIOS 172, 173. (spring) *O. Heck*. Etiology of human parasites, their transmission, diagnosis, and prevention. 3 lec, 6 lab.

463 Cell Chemistry (4)

Prereq: organic chemistry. (fall) *J. Wilson, L. Wince*. Chemistry of carbohydrates, lipids, proteins, and nucleic acids. Principles of enzyme activity and kinetics; metabolic pathways and regulation. 4 lec.

464 Physiological Chemistry Lab (3)

Prereq: 463, or concurrent. (fall, winter) *J. Gault, J. Wilson*. Basic procedures in qualitative and quantitative analysis of biological compounds and reactions. 6 lab.

482 Topics in Microbiology (1-6, max 8)

Prereq: 20 hrs of microbiology, including 411; 2.5 g.p.a. in major courses; perm from specific professor. Individual or small-group study of specialized topics in microbiology under supervision of instructor. Special registration with departmental secretary absolutely required.

485 Undergraduate Research (1-3, max 12)

Prereq: 20 hrs and 2.5 g.p.a. in microbiology; perm from specific professor. Independent research under supervision of staff member. Special registration with departmental secretary absolutely required.

485H Undergraduate Research (1-4, max 12)

Prereq: 3.2 g.p.a. in microbiology, perm from specific professor. Individualized and directed research. Students select topics or are directed into possible research areas. Special registration with departmental secretary absolutely required.

495H Undergraduate Research (Thesis) (3-9, max 15)

Prereq: 485H, 3.0 g.p.a. in sciences, sr. Independent departmental honors research under supervision of staff member. Student should enroll qtr he or she expects to complete thesis. Special registration with departmental secretary absolutely required.

497T Senior Tutorial Thesis (1-15)

Prereq: perm. (fall) *M. Chamberlin*. Special courses offered to students in Honors Tutorial program.

498T Senior Tutorial Thesis (1-15)

Prereq: perm. (winter) *M. Chamberlin*. Continuation of 497T. See 497T for description.

499T Senior Tutorial Thesis (1-15)

Prereq: perm. (spring) *M. Chamberlin*. Continuation of 497T-498T. See 497T for description.

Biology (BIOL)

(See also Biological Sciences and Environmental and Plant Biology.)

101 Principles of Biology (5) (2N)

Designed for nonscience majors. Principles of cell biology, physiology, ecology, genetics, and evolution. Credit not allowed for both 101 and BIOS 170 or 101 and BOT 110 or 101 and PBIO 110 or 101 and ZOOL 101 or 101 and ZOOL 170. 4 lec, 2 lab.

Black Studies

See African American Studies.

Business Administration (BA)**101 Business and Its Environment (4)**

Nature of business and of economic, social, and political environments of business firm. Emphasis on ways in which such surroundings affect business policies and operations.

111 History of American Business (4)

Origins and development of American business, emphasizing interrelations among business economy, society, and polity.

301 Business and Its Environment (4)

Prereq: jr or sr (not open to those with credit for 101). Nature of business and of economic, social, and political environments of the business firm. Emphasis on ways such surroundings affect business policies and operations.

329 Current Global Issues in Business (4)

Prereq: jr or perm. Examines and compares the characteristics, market niches, and business strategies of various companies during the last four years. Taking examples from the U.S., Japan, Korea, and the other Far East countries, the course will focus upon selected business issues such as productivity, quality, the art of "managing" the businesses, the role of technology, and how to survive in the war of global competition.

385 Multinational Business (4)

Prereq: jr. Study of emergence of U.S. and non-U.S. multinational corporations, scope of their operations, and their impact on U.S. economy and consumer.

431 Administration of Information Systems (4)

Prereq: sr or perm. Information networks and flows in organizations within total-systems framework.

445 Small Business Administration (4)

Prereq: BUSL 255; FIN 325; MGT 300; 325J; MKT 301, OPN 310. Place and role of small business firms: problems they face, opportunities involved, and competitive considerations.

455 Studies in Business History (4)

Prereq: jr or sr and perm. Case studies of American business figures and firms since early colonial period, with emphasis on 20th century. Lessons from past examined in relation to present sound business policy.

465 Technology and the Environment (4)

Prereq: jr or sr and perm. Course is conceptual, interdisciplinary, and future-oriented. Variety of developmental problems and interaction of many technological environments including economic, sociopolitical, and market environments.

470 Administrative Policy (4)

Prereq: jr in CBA, and all CBA core courses. Integrated application of core studies to nature, functions, and activities of actual business, analyzing objectives, policies, and performance all in relation to outside environment.

480 Ethics and Morality in Business (4)

Prereq: jr or sr and perm. Combined moral philosophy and personal responsibilities in business; critical analysis of contextual situation where provisional resolutions must be indirectly charted between ethical oughts and economic musts.

497 Independent Research (1-4)

Prereq: perm. Research in selected fields of business administration under direction of faculty member.

498 Internship (1-4)

Prereq: perm.

Business Law (BUSL)**255 Law and Society (4)**

Prereq: soph. Conceptual approach to origin, nature, structure, functions, and procedures of law, with study of ethics and introduction to constitutional, administrative, criminal, tort, contractual, international, and environmental law, as well as business organizations.

265 Law of Contractual Relations (4)

Prereq: 255. Legal aspects of contracts, sales, warranties, products liability, and consumer protection.

356 Law of the Management Process (4)

Prereq: 255, jr or perm. Conceptual framework of legal nature of organizations, particularly corporations and partnerships: rights, powers, and limits of managers in relation to duties and responsibilities to their organizations, owners, creditors, employees, customers, state, and public.

357 Law of Commercial Transactions (4)

Prereq: 255, jr or perm. Legal aspects of commercial paper, consumer credit, and bankruptcy.

360 Law of Health Care (4)

Prereq: jr or perm. Analysis of public-private constraints in foundation health agencies; experimentation and risk assumption; medical records; hospital liability; and governmental regulations.

370 Environmental Law (4)

Prereq: jr or perm. Legal aspects of both individual environmental and societal environmental rights and duties with respect to constitution, private property, nuisance, negligence, statutes, regulatory agencies, and court decisions. Emphasis upon case study of federal, state, and local laws which shaped existing law and those which are likely to shape future legislative and administrative action.

385 International Business Law (4)

Prereq: jr or perm. Examines the laws, organizations, and principles that impact on business transactions in the international arena. Focuses upon the importance of international business in a global economy and upon the special legal issues facing businesses, large and small, that engage in international trade, franchising, licensing, or investment.

442 Law of Property and Real Estate (4)

Prereq: 255 or perm. Property law as an institution and analysis of creation, transfer, and relation of various legal interests in property, especially land.

462 Law of Estates and Trusts (4)

Prereq: 255 or perm. Law as it pertains to decedents' estates, including law of wills, intestate succession, and trusts.

465 Law of Sports (4)

Prereq: perm. Regulations of amateur athletics, public regulation of sports activities, legal relationships in professional sports, enforcement of professional sports contract, liability for injuries, and antitrust aspects of sports activities.

475 Government and Business (4)

Prereq: 255 or perm. Governmental regulatory environment of business including analysis of statutes, court decisions, and rulings affecting policy decisions.

491 Seminar (1-5)

Prereq: 255 or perm. Selected topics of current interest in business law area.

497 Independent Research (1-5)

Prereq: perm. Research in selected fields of business law under direction of faculty member.

498 Internship (1-4)

Prereq: perm.

Business Management Technology (BMT)

The following courses for the A.A.B. in business management technology (BMT) are available on the Chillicothe and Lancaster campuses. These courses are not open to College of Business Administration students.

101 Business and Its Environment (4)

Nature of business and of economic, social, and political environments of business firms. Emphasis on ways in which such surroundings affect business policies and operations.

110 Introduction to Management (4)

Nature of managerial concepts, managerial functions, and organizational structure, with emphasis on current issues.

120 Mathematics in Business (4)

Prereq: MATH 101 or equivalent. Application of basic math to business problems. Special emphasis on compound interest, installment buying, and depreciation. Elementary applications of probabilities and statistics. Introduction to computer programs commonly used in business math applications.

140 Concepts of Marketing (4)

Introduction to problems of manufacturers, wholesalers, and retailers as they relate to modern marketing, market, and product.

150 Elements of Supervision (3)

Concepts of modern-day supervision. Emphasis on supervisor's major functions and development of sensitivity to human facets in management, using behavioral science findings.

170 Small Business Operations (3)

Includes preparation of student for selection and operation of small business. Balanced program of all major aspects confronting small business operator, including finance, personnel, sales, and success and failure factors.

189 Independent Study (1-5)

Projects concerning business technology explored with instructor on 1-to-1 basis. Studies selected in subject areas in business field. May be repeated up to 5 credits.

200 Introduction to Business Computing (4)

Computer applications used in business and industry. Students do computer assignments utilizing BASIC and an integrated business program such as LOTUS 1-2-3 and WordPerfect programs, as well as readings in computer science.

203 Business Career Profiles (3)

Practical approach to better understanding by students of what is expected of them by management and what they can expect from management or a position in any working situation by achieving a better grasp of the various activities and institutions within the business community.

210 Managing Finance in Business (4)

Prereq: ACC 103 and 104. Introduction to basic concepts, principles, and analytical techniques of financing, forecasting, planning and managing assets.

220 Concepts of Purchasing Management (4)

Analysis of purchasing operation's structure and processes. Descriptions of quality, quantity, value, timing, cost, risk, and procurement controls. Vendor relationships, make-or-buy decisions, inventory control, buyer training, material handling, records and budgets.

230 Concepts of Sales (3)

Policies and procedures pertaining to planning sales effort and control of sales operations. Personality development and role of selling in society, careers, and psychology and philosophy as related to selling.

240 Concepts of Audience Analysis (3)

Development of knowledge of behavior content of marketing in consumer fields. Examination of applicable theory and research findings and concepts provided by psychology, sociology, anthropology, and marketing. Stress on conceptual models of buyer behavior based on sources of influence.

250 Practical Personnel Procedures (3)

Hiring, training, assignment of work, employee counseling, promotion, wage and salary administration. Leadership, motivation, and direction of employees toward management/employee-oriented goals.

260 Business Report Writing (4)

Practice in planning and writing effective business letters, memoranda, and reports.

270 Advertising Concepts (3)

General course in advertising which emphasizes psychology, advertising agency, media research, brands, and labels.

275 Managerial Planning (4)

Prereq: 210. In-depth coverage of the planning process with emphasis on strategic planning. The case study approach is employed to develop skill in complex and difficult decision making. Applications in management science to assist in the decision process are covered.

280 Concepts of Labor and Management Relations (4)

Prereq: ECON 103. A broad overview of micro and macroeconomic theory as applied to the labor factor of production; the many problems related to the full utilization of human resources and government policies addressing these problems; the effects of unionism and labor-management relations including collective bargaining.

285 Government and Business (3)

Business and government relations, with emphasis on analysis of selected areas involving public policy and business.

288 Computer Applications for Management (4)

Prereq: 275. Utilizes integrated software package skills acquired in 200 and in comprehensive case-studies approach in business. Spreadsheet, data base management, word processing, and graphics applications used to create comprehensive business report that ties together overall curriculum.

289 Special Topics (1-5)

Advanced projects concerning business technology explored with instructor on 1-to-1 basis. For advanced students only. May be repeated to 5 credit hrs.

Chemistry (CHEM)

A student who completes the requirements for the B.S. degree with a major in chemistry is eligible for professional status in the American Chemical Society. Completion of the minimum requirements for the A.B. degree with a major in chemistry does not qualify a student for certification to the society.

Students who wish to obtain state certification to teach high school chemistry may do so by completing the A.B. or B.S. degree programs, described in the following sections. To do so also requires completion of professional education and general education courses, as described in the College of Education section of this catalog. Students pursuing this option not only need to maintain contact with their Department of Chemistry advisors, but also need to obtain further information concerning certification requirements from the College of Education, McCracken Hall 124. Students also may attain certification to teach high school chemistry through B.S. Ed. programs with a major or minor in chemistry, as described in the College of Education section of this catalog.

Students having foreign language requirements should take German or Russian. Those anticipating graduate study should be aware that graduate schools generally require a reading knowledge of one or more foreign languages: German and/or Russian is recommended. Details of the M.S. and Ph.D. programs are given in the Graduate Catalog.

All chemistry laboratory courses will require a \$20 breakage and supplies card, the unused portion of which will be refunded.

Completion of the A.B. or B.S. degree requirements automatically completes the requirement of the College of Arts and Sciences for at least nine hours in the major at the junior-senior level.

Chemistry Major (Major code #BS3311, BA3311)

The major requirement for the B.S. degree includes the following: 151-152-153; 241-242; 305-306-307-308-309, 400A-B; 453-454-455; 456-457; 476; 431-432-433-434-435-436; and a course in biochemistry (489 or the full sequence 490-491-492). Extradepartmental requirements include MATH 263A-B-C-D and PHYS 251-252-253, which should be completed by the end of the second year. ENG 151 and 305J are also recommended to meet English composition requirements. The B.S. degree program is chosen by students contemplating entrance into graduate programs in chemistry, or employment in the chemical industry.

The major requirement for the A.B. degree includes the following: 151-152-153; 241-242; 301-302 or 305-306-307; 303-304 or 308-309; 325 or any two of the pairs 431-434, 432-435, 433-436; 351 or 453-454-455; 476; and a course in biochemistry. A full year's work is required in at least one of the following fields: analytical (241-242 and any two of the pairs 431-434, 432-435, 433-436), organic (305-306-307), physical (453-454-455), or biochemistry (490-491-492). ENG 151 and 305J are also recommended as above.

Chemistry Minor

A minor program in chemistry requires completion of at least 30 quarter hours of chemistry coursework including CHEM 121-122-123 or 151-152-153; CHEM 301-302-303 or 305-306-307, as well as any two of the following groups: A) CHEM 241 and 242; B) CHEM 351 or 453; C) CHEM 489 or 490; D) CHEM 476. Additional courses required to meet the 30 hour minimum can be chosen from any other courses for which prerequisites have been satisfied.

B.S. in Forensic Chemistry (Major code #3310)

The B.S. in forensic chemistry is a four-year program. Forensic chemistry is the application of chemistry and related sciences to criminal investigation. The program prepares students to work in modern crime laboratories or other law enforcement agencies such as FDA, OSHA, and EPA, or to pursue graduate work in forensic chemistry or forensic sciences.

The major requirements for the degree include CHEM 151-152-153; 241-242; 301-302-303-304; 351, 460, 431-432-433-434-435-436; 487, and one 4-hour course to be selected from CHEM 330, 400A-B, 476, 479, 489, 490, and 499. Extradepartmental requirements are ART 191 or 192, LET 100, 120, 140, 200, 250, and 260; MATH 163A and 163B; PHYS 201, 202, and 203; and BIOS 170, 300, and 364. ENG 151 and 305J are recommended for meeting English composition requirements.

Students interested in the program should consult the Director, Forensic Chemistry Program, Department of Chemistry, for advance advising and schedule planning.

101 Chemistry Applied to Today's World (4) (2A)
(spring) Designed for nonscience majors with little or no previous experience with chemistry. Applications of basic principles of chemistry to real world situations. Instruction will include use of the video series, "The World of Chemistry." 4 lec.

115 Preparation for College Chemistry (2)
Prereq: fr only, or perm. (fall) For students who have not had high school chemistry or have had inadequate preparation to enter regular chemistry sequence. Material presented includes metric system, atomic and molecular structure, formulas, equations, states of matter, and problem solving. Will not satisfy any part of natural sciences requirement of College of Arts and Sciences. 2 lec.

121 Principles of Chemistry I (4) (2N)
(fall, winter) Introduction to chemistry through study of atomic and molecular structure, periodic table, and states of matter. Recommended for students in College of Education (except B.S.Ed. majors in biological science, chemistry, and physics), and other programs requiring only 1 yr of chemistry. Credit not allowed for both 121 and 151. 3 lec, 3 lab.

122 Principles of Chemistry II (4) (2N)
Prereq: C- or better in 121 or 151. (winter, spring) Introduction to descriptive inorganic chemistry through study of solutions and concept of equilibrium. Credit not allowed for both 122 and 152. 3 lec, 3 lab.

123 Principles of Chemistry III (4) (2N)
Prereq: 122 or 152 or perm. (spring, fall) Designed to survey organic chemistry and biochemistry and their impact upon daily existence. 3 lec, 3 lab.

151 Fundamentals of Chemistry I (5) (2N)
Prereq: MATH 113 or placement above 113 or perm. (fall, winter, summer) General course in fundamental chemical principles. Atomic structure, periodic classification, bonding, mole concept, and stoichiometry with problem solving. Recommended for majors in chemistry, engineering, biological sciences, plant biology, clinical laboratory science, secondary education (B.S.Ed. in biological sciences, chemistry, and physics), and preprofessional (biological science) areas. Credit not allowed for both 121 and 151. 4 lec, 3 lab.

152 Fundamentals of Chemistry II (5) (2N)
Prereq: C- or better in 151 or perm. (winter, spring, summer) States of matter, solutions, kinetics, acids, bases, and chemical equilibrium with problem solving. Credit not allowed for both 122 and 152. 4 lec, 3 lab.

153 Fundamentals of Chemistry III (5) (2N)
Prereq: 152 or perm. (fall, spring) Introduction to thermodynamics. Study of the chemistry of transition metals and selected representative elements. Introduction to nuclear and radiochemistry. 4 lec, 3 lab.

241 Quantitative Analysis (4)
Prereq: 153 and concurrent with 242. (fall) Introduction to quantitative techniques to include volumetric and gravimetric methods of analysis. Concurrent registration in 242 required for initial enrollment. 4 lec.

242 Quantitative Analysis Laboratory (1)
Prereq: 241 or with 241. (fall) Laboratory work to accompany 241. Concurrent registration in 241 required for initial enrollment. 3 lab.

301 Organic Chemistry (3)*
Prereq: 123 or 153, or concurrent. (fall, summer) Designed for students who are not B.S. chemistry majors and who do not require a full year course in organic chemistry.

302 Organic Chemistry (3)*
Prereq: 301. (winter, summer) Continuation of 301. See 301 for description.

303 Organic Chemistry Laboratory (2)*
Prereq: 301 or 305, or concurrent. (fall, spring, summer) Designed for students who are not B.S. chemistry majors. 1 lec, 2 lab.

304 Organic Chemistry Laboratory (3)*
Prereq: 303; 302 or 307, or concurrent. (winter, spring, summer) Continuation of 303. See 303 for description. 6 lab.

305 Organic Chemistry (3)*
Prereq: 153 or with 153 or perm. (fall) Organic chemistry for chemistry majors and other students wishing to acquire sound knowledge of classical and modern organic chemistry.

306 Organic Chemistry (3)*
Prereq: 305. (winter) Continuation of 305. See 305 for description.

307 Organic Chemistry (3)*
Prereq: 306. (winter) Continuation of 305-306. See 305 for description.

308 Organic Chemistry Laboratory (3)*
Prereq: 306, or concurrent, major or perm. (winter) Emphasis on microscale synthesis, purification, and characterization of organic compounds. Designed for B.S. chemistry majors. 6 lab.

309 Organic Chemistry Laboratory (3)*
Prereq: 308 and 307 or with 307. (spring) Continuation of 308. See 308 for description.

325 Instrumental Methods of Analysis (4)
Prereq: 241 and 242. (winter) Analytical chemistry course for students not majoring in chemistry, which emphasizes application of instrumental methods to solution of problems in chemical analysis. 3 lec, 3 lab.

330 Introduction to Toxicology (4)
Prereq: 302 or 307. Introduction to chemical, clinical, environmental, and forensic aspects of toxicology, types of poisons, how poisons act, treatment of acute poisoning, and control of poisonous materials.

345 Chemistry of Photography (4)
Prereq: 122 or 152 and ART 192. Basic chemistry of modern and historical photographic and photomechanical materials and processes. 2 lec, 4 lab.

351 Physical Chemistry (4)
Prereq: MATH 163B or 263B or perm and 153. (fall) For premedicine, B.S.Ed., B.S.I.H., and A.B. chemistry majors. Topics include thermodynamics, thermochemistry, equilibrium, solutions, electrochemistry, and kinetics, with special emphasis on applications in life sciences.

400A Advanced Organic Laboratory (2)
Prereq: 307, 309. (fall, spring) Advanced lab techniques and instrumentation. 1 lec, 6 lab (for five-week session).

400B Advanced Inorganic Laboratory (2)
Prereq: 476 or with 476. (fall, spring) Advanced inorganic laboratory synthesis and techniques. 1 lec, 6 lab (for five-week session).

420 Chemical Literature (5)
Prereq: 24 hrs. Instruction in use of chemical literature and application to scientific writing.

431 Chemical Separation Methods (3)
Prereq: 351 or 453, or concurrent. (winter) Modern methods of separating components of complex mixtures with emphasis on operation and application to analytical chemistry. Topics include liquid-liquid extractions, partition chromatography, ion-exchange, gas-chromatography, high pressure liquid chromatography, exclusion chromatography, and electrophoresis. Concurrent registration in 434 required for initial enrollment. 3 lec.

432 Chemical Instrumentation and Electrochemistry (3)
Prereq: 351 or 453, or concurrent. (spring) Modern electrochemical techniques and instrumentation with emphasis on their applications in analytical chemistry. Topics include potentiometry, specific ion electrodes, DC and AC polarography, pulse polarography, coulometry, chronocoulometry, cyclic voltammetry, and rapid scan voltammetry. Concurrent registration in 435 required for initial enrollment. 3 lec.

433 Spectrochemical Analysis (3)
Prereq: 351 or 453, or concurrent. (fall) Survey of spectrochemical instrumentation with emphasis on their operation and applications in analytical chemistry. Topics include atomic absorption, atomic emission, molecular absorption and molecular emission and will cover emission-absorption phenomena in the X-ray, ultraviolet, visible, and infrared regions of electromagnetic spectrum. Concurrent registration in 436 required for initial enrollment. 3 lec.

434 Chemical Separation Methods Laboratory (1)
Prereq: 431, or concurrent. (winter) Laboratory work to accompany 431. 3 lab.

435 Chemical Instrumentation and Electrochemistry Laboratory (1)
Prereq: 432, or concurrent. (spring) Laboratory work to accompany 432. 3 lab.

436 Spectrochemical Analysis Laboratory (2)
Prereq: 433, or concurrent. (fall) Laboratory work to accompany 433. 4 lab.

453 Physical Chemistry (3)
Prereq: 153; MATH 263D, or concurrent; PHYS 253. (fall) Calculus based study of thermodynamics with applications to chemical equilibria.

454 Physical Chemistry (3)
Prereq: 453. (winter) Continuation of 453. Thermodynamics of ionic solutions, electrochemical cells and surfaces, kinetic theory of gases, chemical kinetics.

455 Physical Chemistry (3)
Prereq: 454. (spring) Continuation of 454. Quantum theory with applications to molecular structure, molecular and resonance spectroscopy including NMR and ESR, statistical thermodynamics.

456 Physical Chemistry Laboratory (3)
Prereq: 351 or 453. Experimental determination of molecular weights, ionic velocities, composition of azeotropes and complex ions, equilibrium constants, phase rule diagrams, etc. Instrumental procedures include refractometry, polarimetry, viscometry, etc. 6 lab.

457 Physical Chemistry Laboratory (3)
Prereq: 456. Continuation of 456. 6 lab.

458 Chemical Thermodynamics (3)
Prereq: 455. (spring) Concepts of energy and entropy and their use in predicting feasibility and extent of chemical reactions.

459 Physical Chemistry (3)
Prereq: 454. (spring) continuation of 454. Topics include surfaces, solids, electrical conduction and transport properties, photochemistry, and polymers.

460 Spectroscopic Methods in Organic Chemistry (3)
Prereq: 302 or 307. (spring) Modern spectroscopic methods as employed in organic chemical research: NMR, IR, UV, ESR, and mass spectrometry.

471 The Physical Chemistry of Macromolecules (3)
Prereq: 454. Effects of structure and molecular weight on physical and chemical properties of macromolecules. Topics include molecular weight distribution, solubility, polymer conformation, different types of polymers, synthesis, and reactions. Both synthetic and natural polymers considered.

476 Modern Inorganic Chemistry (4)
Prereq: 351 or 453 or with 351 or 453. (fall) considers relationship between physical and chemical properties of inorganic substances and nature of bonding and structures involved. 4 lec.

479 Radiochemistry (4)
Prereq: 153. Applications of isotopes to problems in chemistry; safe handling of radioactive material; detection and determination of radiation. 2 lec, 4 lab.

480 Advanced Organic Chemistry (4)
Prereq: perm. (fall) Structural theory, stereochemistry, reactive intermediates, and reaction mechanisms.

487 Forensic Chemistry (6)
Prereq: C or better in 433. Surveys chemical problems most frequently encountered in crime lab and their currently acceptable solutions, as well as special techniques not covered in other analytical chemistry courses. 3 lec, 6 lab.

489 Basic Biochemistry (4)
Prereq: 302 or 307 or perm. (winter) Survey course, including introduction to biochemical concepts and techniques, metabolic pathways, and information storage and transmission, with emphasis on directions of current biochemical research.

490 Introduction to Biochemistry (4)
Prereq: 302 or 307. (fall) Macromolecular structure of biomolecules.

491 Introduction to Biochemistry (3)

Prereq: 490. (winter) Bioenergetics, metabolism, and metabolic control systems. Physical chem recommended.

492 Introduction to Biochemistry (3)

Prereq: 491. (spring) Complex integrated biochemical systems.

493 Biochemical Techniques (3)

Prereq: 492; biochemistry major or perm. (fall) Laboratory course using modern biochemical and molecular biology techniques including electrophoresis, chromatography, enzyme kinetics, and amino acid analysis. 6 lab.

494 Biochemical Research (1-5)

Prereq: 493. (fall, winter, spring) Independent work in a biochemistry laboratory. Students will be assigned a research project which will use various biochemical research techniques. Students may enroll one or more quarters. 2-10 lab.

497 Forensic Chemistry Internship (3-10)

Prereq: sr in Forensic Chemistry Program and perm. Supervised work in approved forensic science lab to gain practical experience. Oral and written reports required.

499 Undergraduate Research (1-5)

Prereq: jr or sr with 2.75 g.p.a. in chemistry courses and perm of dept. chair. Independent work for qualified upperclass majors in chemistry and related areas. Student may enroll one or more quarters.

*Credit is not allowed for both sequences of organic chemistry courses—301-302-303-304 and 305-306-307-308-309. Transfer from the middle of one sequence to the other may be possible, but is permitted only upon approval of the faculty in the courses involved.

Chinese

See Foreign Languages and Literatures.

Communication Systems Management (COMT)

The major requirements for the Bachelor of Science in communication systems management include 38-41 hours in the subject area, as well as courses in several other participating schools and departments. (See Curricula and Requirements.) All majors are required to complete COMT 214, 220, 222, 302, 304, 310, 312, 444, and three additional COMT courses of the student's choice (excluding COMT 401, 431, or 493).

101 Consumer Issues in Communication Systems Management (4)

Provides a broad overview of issues in voice, data, and image communications. Topics focus on consumer issues, technological advancements, and the impact of communication systems on society.

214 Introduction to Communication Systems Management (4)

General principles and techniques of point-to-point telecommunications. Includes brief history of field and general introduction to technology of voice, data, and image transmissions.

220 Communication Systems and Applications I (4)

Prereq: 214. major Principles of operation and design of typical voice and imaging communication systems. Includes switching, transmission, traffic studies, queuing techniques, and broadband networks.

222 Communication Systems and Applications II (4)

Prereq: 214. major Principles, theories, and technology of data networks are explored in this course. Topics include coding and timing of data, components of data networks, and protocols.

302 Fundamentals of Common Carrier Regulation (3)

Prereq: 214, 220. major Study of regulatory systems, tariff structures, and costing of telecommunications across state and national boundaries. Basic policy development at state and federal levels. Impact of the deregulation of the Bell system.

304 Applications of Common Carrier Regulation (3)

Prereq: 302. major. Provides applications of the materials learned in 302. Topics include the tariff filing process, rate making methodologies, the Computer Inquiries, and regulation of emerging technologies.

310 Technological Basics of Communication Systems (4)

Prereq: 220 and 222. major. Investigation of the technical issues common to all communications systems. Topics include basic electrical and electromagnetic theory, fundamentals of circuits and components, and operation of the telephone and other communications equipment.

312 Technology of Voice/Data Systems (3)

Prereq: 310. major. Basic laboratory experience in the technologies commonly found in voice and data telecommunication systems. Students design, examine, and build basic telecommunication circuits; and develop both competency in the use of telecommunication test equipment and skills in system problem analysis.

325 Data Networks (4)

Prereq: 220 and 222. major. Provides the understanding needed to use telecommunication protocols and access methods to design and implement applications software in a data communications environment. Topics will include: SNA, DECNET, selected other protocols, and the OSI model.

329 Communication Network Analysis and Design (4)

Prereq: 220, 222. major. An extensive examination of the process of designing communications networks. Topics will include statistical distribution of voice, data, and image traffic; definition of limitations in communication networks; and experiences in modeling various network topologies.

379 Protection of Communication Systems (3)

Prereq: 220, 222. major. Examination of security and protection of communications systems and networks. Topics will include disaster prevention and recovery, securing voice and data systems against hackers, and securing sensitive information.

391 Topical Seminar (3-4)

Prereq: 220, 222. major. Specialized topics, taught by faculty or visiting professionals.

401 Internship in Communication (1-12)

Prereq: written proposal and perm. Internship with approved company, agency, or organization. Application necessary; comprehensive paper required.

405 Communication Regulatory Policy (3)

Prereq: 304, 310. major. An in-depth analysis of policy issues of fundamental concern to the voice/data communication environment. Examples of such issues would be voice/data communication and economic development, or equitable access to the nation's public communication network.

407 International Communication Networks (4)

Prereq: 302, 310. major. A study of international communication organizations (PTTs, the ITU, etc.), international satellite organizations, and other international record carriers. The course will explore current issues in international standards and regulations.

415 Emplacement of the Communications Resource (4)

Prereq: 302, 310. major. An examination of the processes used by the communication professional to plan and install a communication system. Topics include planning, project management, and strategies in meeting customer needs.

431 Senior Seminar (2)

Prereq: 302, 222. major. Weekly discussions with faculty and telecommunication professionals, position papers required for discussion and presentation.

444 Management of Communication Resources (4)

Prereq: 304. major. Case studies in costing communication carriers, developing and responding to RFP/RFOs, and needs analysis of communication installations. Extensive paper required.

491 Topical Seminar (3-4)

Prereq: 222, 302. major. Specialized topics taught by faculty or J. Warren McClure Distinguished Visiting Professor.

493 Special Studies (1-4)

Prereq: 214. major, and proposal. Independent study, supervised by faculty. Repeatable to 12 hours.

Comparative Arts (CA)

Offerings include courses in introduction to fine arts and history courses in individual content areas.

The following two courses are provided for majors in the College of Fine Arts who wish to study the relationship of all the arts, and for all students in the University who wish to elect courses with the basic purpose of understanding their cultural heritage: CA 117 and CA 118 include four quarter hours of credit for each quarter for a total of eight quarter hours.

The courses service the following areas:

1 Tier II requirements for majors in the College of Fine Arts.

2 Tier II requirements for students in other degree colleges and for transfer students from other universities; and

3 State requirements for certification in the College of Education.

117 Introduction to Fine Arts (4) (2H)

Introduction to study aesthetic experience and an investigation of concepts of response to that experience as seen from analysis of individual works of art. Examples drawn from media of painting and sculpture, architecture, theater, music, dance, and film.

118 Introduction to Fine Arts (4) (2H)

Prereq: 117. Analysis of form, media, and content of major arts stressing interrelationship among arts through recognition of common art factors.

150 Viewing Performance (2)

Integrates classroom and student life activities at the University by combining the productions of the schools of Music, Dance, and Theater with a seminar course dealing with characteristics and artistic concerns of each medium. A two-hour seminar precedes and follows each of the performances.

211 History of Art (4) (2H)

Survey of Western painting, sculpture, and architecture from prehistoric to early Christian. Students advised but not required to enroll in 211, 212, and 213 in sequence.

212 History of Art (4) (2H)

Continuation of 211 from early Christian period of Europe through Renaissance. Students advised but not required to enroll in 211, 212, and 213 in sequence.

213 History of Art (4) (2H)

Continuation of 212 from Baroque to present. Students advised but not required to enroll in 211, 212, and 213 in sequence.

270 Theater History I (4) (2H)

Development of theater and drama in prehistoric, Greek, and Roman periods.

271 Theater History II (4) (2H)

Development of theater and drama in Medieval and Renaissance periods.

272 Theater History III (4) (2H)

Development of theater and drama from Renaissance to modern.

320X Fine Arts—Florence (1-6)

Prereq: enrollment in OU Italy Program. (spring) Study of fine arts as seen and performed in city of Florence. Churches, museums, and galleries, along with theatrical and musical events, provide examples for study.

321 History and Literature of Music (3)

Prereq: MUS 103. R. Wetzel. History of music with survey of musical literature to 1450.

322 History and Literature of Music (3)

Prereq: 321 or MUS 321. *R. Wetzel*. History of music with survey of musical literature, 1450-1720.

323 History and Literature of Music (3)

Prereq: 322 or MUS 322. *R. Wetzel*. History of music with survey of musical literature, 1720 to present.

355A Cultural Traditions and the Arts (4)

(fall) Principal styles of Western art as mirrored in selected masterpieces of architecture, sculpture, painting, music, and literature. Specific works of art examined in relationship to one another and against background of ideas that animated life of their times (Greek, Roman, Medieval).

355B Cultural Traditions and the Arts (4)

(winter) Principal styles of Western art as mirrored in selected masterpieces of architecture, sculpture, painting, music, and literature. Specific works of art examined in relationship to one another and against background of ideas that animated life of their times (Renaissance, Baroque).

355C Cultural Traditions and the Arts (4)

(spring) Principal styles of Western art as mirrored in selected masterpieces of architecture, sculpture, painting, music, and literature. Specific works of art examined in relationship to one another and against background of ideas that animated life of their times (19th and 20th centuries).

360J Writing in the Arts (4) (1)

Prereq: 117, 118; major in fine arts; or perm. Critical analyses of form, media, and content in fine arts stressing instruction in critical writing.

400 Senior Seminar: Comparative Arts (3)

Prereq: fine arts sr or perm. Designed to increase insight of art majors into all fine arts. Specifically, to understand similarities and differences which exist among several arts through consideration of basic aesthetic concerns.

419 Great Masterworks (4)

Life, times, and works of at least 2 major artists within specified cultural period.

470 Tragedy (4)

Study of tragic genre through study of plays and critical and theoretical documents.

471 Comedy (4)

Study of comic genre through examination of plays and critical and theoretical documents.

472 Forms of Drama (4)

Study of genres of melodrama, farce, and tragicomedies through examination of plays and critical and theoretical documents.

481 Individual Problems (1-6)

Prereq: perm.

responsibility in an information society. Course does not apply to Arts and Sciences natural science requirement. No cr if CS major; no credit if MIS 100 or HS 309 taken.

135 Special Topics in Programming with BASIC (2-5)

Prereq: MATH 101. Introduction to computing using micro-, personal, home, or office computers using BASIC language. Extensive programming exercises assigned exploring capabilities of computers. Course does not apply to Arts and Sciences natural science requirement. May be repeated for a maximum of 5 credits.

199 Computer Usage Laboratory (1-2)

Prereq: concurrent enrollment in interactive programming course. (on demand) Laboratory course for introducing students to interactive computing facilities at Ohio University: VM/CMS, VAX/VMS, UNIX, and microcomputer networks.

220 Introduction to Computing (5) (IM)

Prereq: MATH 113 or equiv. Algorithms, programs, and computers. Basic programming and program structure. Programming and computing systems. Debugging and verification of programs. Data representation. Organization and characteristics of computers. Computer solution of several numerical and nonnumerical problems using 1 or more programming languages. Course does not apply to Arts and Sciences natural science requirement. Not open to those with credit for 321 or 322. FORTRAN taught.

223 Introduction to Computing for Business (5)

Prereq: MATH 113 or equiv. Principles and practice of computer solution of problems in business. Typical problems exist in accounting, quantitative methods, and management. COBOL is used.

228 Introduction to Prolog (4)

Prereq: 120 or MIS 100 or perm. A general introduction to logic programming using the language Prolog. Begins with an orientation on the PC system and the programming environment for Prolog. Subsequently emphasizes rule-based programming and the relationship between rules, queries, goals, and facts. The programming assignments will emphasize problem solving which requires deduction and the use of the built-in inference engine.

230 Computer Programming I (5) (2A)

Prereq: grade of 2.0 or better in MATH 113, or equiv. Basic programming and program structure. Programming and computing systems. Debugging and verification of programs. Data representation. Organization and characteristics of computers. Survey of computers, languages, systems, and applications. Computer solution of several numerical and nonnumerical problems using 1 or more programming languages. PASCAL taught.

231 Computer Programming II (5)

Prereq: grade of 2.0 or better in 230. Continuation of 230. Introduction to intermediate programming techniques (e.g., recursion, use of pointer variables, backtracking) and data structures. Definitions and specifications of syntax and semantics of programming languages. Continued use of structured language in 230 with examples chosen from nonnumerical problems.

235 Advanced Programming in BASIC (5)

Prereq: 135 or 120 with extensive programming experience. Continues 135 with advanced topics and exposure to mini- and mainframe computers. Organizing and handling files and data bases will form core at level sufficient for use in small businesses and industries.

238 Introduction to Computer Systems (5)

Prereq: 231 or 240B. Computer structure, machine language, instruction execution, addressing techniques, and digital representation of data. Computer systems organization, logic design, microprogramming, and interpreters. Symbolic coding and assembly systems, macro definition and generation, and program segmentation and linkage. Systems and utility programs, programming techniques, and recent developments in computing. Several computer projects to illustrate basic machine structure and programming techniques.

240A Introduction to Computer Science (5)

Prereq: 230 or equiv. An intensive introduction to the process of algorithmic problem solving in a computing environment. Topics include problem definition and specification, algorithm design, efficiency and validity of implementation, as well as social and ethical implications of computational solutions. Serves as an introduction to advanced topics in computer science.

240B Introduction to Computer Science (4)

Prereq: 240A, MATH 263A. Implementation and application of standard data structures and their operations, abstract data types and encapsulation, sorting, searching, storage management and complexity of algorithms. Continuation of 240A.

240C Introduction to Computer Science (4)

Prereq: 240B, MATH 263B. One large program will be developed by the student with design guidance from the instructor. This course will synthesize the material from 240A and 240B into a disciplined approach to design and development using current software engineering principles and practices for specification, design, coding, and testing.

300 Introduction to Discrete Structures (5)

Prereq: 240A. Review of set algebra including mappings and relations. Algebraic structures including semi-groups and groups. Elements of theory of directed and undirected graphs. Boolean algebra and propositional logic. Applications of these structures to various areas of computer science.

320 Organization of Programming Languages (5)

Prereq: 238. Formal definition of programming languages including specification of syntax and semantics. Simple statements including precedence, infix, prefix, and postfix notation. Global properties of algorithmic languages including scope of declarations, storage allocation, grouping of statements, binding time of constituents, subroutines, coroutines, and tasks. List processing, string manipulation, data description, and simulation languages. Run-time representation of program and data structures.

321 Computing for Engineers and Scientists (5)

Prereq: MATH 340. Principles and practice of computer solution of problems involving extensive numerical calculations as found in physical sciences, engineering, and numerical mathematics. Not open to those with credit for 220.

340 Introduction to Computer Organization (5)

Prereq: 238. Organization of digital computer. Data representation and internal transfer. Digital arithmetic logic unit, control section, and timing. Input-output devices and channels. Software-hardware interfaces.

350 Survey of Computer Hardware and System Software (4)

Prereq: 230 or MIS 220. Provides an overview of the architecture of computing equipment and system software (operating systems, editors, translators, file servers, etc.). Designed to provide information of the technical underpinnings upon which computer information and communications systems are built to students in business administration, communications management, etc. Course does not apply to Arts and Sciences' natural sciences requirement.

361 Data Structures (5)

Prereq: 300, 240C. Basic concepts of data. Linear lists, strings, arrays, and orthogonal lists. Representation of trees and graphs. Storage systems and structures and storage allocation and collection. Multilinked structures. Symbol tables and searching techniques. Formal specification of data structures, data structures in programming languages, and generalized data management systems.

404 Design and Analysis of Algorithms (5)

Prereq: 361. Correctness of algorithms. Analysis of efficiency of algorithms—recurrence relations, worst-case and best-case behavior, average-case behavior. Design of algorithms: divide-and-conquer and balancing, greedy method, graph searching, dynamic programming, backtracking, branch-and-bound and preprocessing techniques.

Computer Science (CS)

The computer science major requirements for either the A.B. or B.S. degree are: 60 hours of coursework in the department and MATH 263A, 263B, 263C, and 263D; each course must be completed with a grade of 2.0 or better. The coursework in the department must include CS 240A, 240B, 240C, 238, 300, 320, 340, 361, 442, 462, and two additional courses at the 400 level below 490.

A minor in computer science may be earned by completing CS 240A, 240B, 240C, 238, 300, 320, and 361, and one quarter of calculus, each with a grade of 2.0 or better.

120 Computer Literacy (3)

Prereq: MATH 101 or equiv. Basic components of computer literacy for undergraduate. Introduces disk operating systems and such application programs as word processing, spreadsheets, data base management, and electronic mail. Explores input, process, output, and storage cycle of computer technology, the impact of computers, and citizens'

406 Computation Theory (5)

Prereq: 300. Algorithms, recursive functions, Turing machines, decidability. (Same as PHIL 422.)

410 Formal Languages and Syntactic Analysis (5)

Prereq: 361. Definition of formal grammars, arithmetic expressions and precedence grammars, context-free and finite-state grammars. Algorithms for syntactic analysis: recognizers, backtracking, operator precedence techniques. Semantics of grammatical constructs: reductive grammars. Floyd productions, simple syntactical compilation. Relationship between formal languages and automata.

411 Concurrent Programming (5)

Prereq: 320, 361. Compares and contrasts concurrency issues in different programming languages. Remote procedure call, asynchronous buffered message passing, synchronized unbuffered message passing, and shared memory will be studied. Aims to compare and contrast the programming techniques appropriate for different communication mechanisms and to assess their relative effectiveness in different problem domains. An introduction to PetriNet and its application to designing concurrent software will be given.

412 Parallel Computing I (5)

Prereq: 361. Studies different parallel structures to familiarize students with the variety of approaches to parallel computing and the strengths and weaknesses of each approach. Concentrates on understanding methods for developing parallel algorithms and analyzing their performance. The advantages and disadvantages of different methods for mapping algorithms onto several different parallel architectures will be studied. Algorithms discussed will include sorting, searching, and matrix operations.

442 Operating Systems and Computer Architecture I (5)

Prereq: 340, 361. Review of systems programs, their components, operating characteristics, user services, and their limitations. Implementation techniques for parallel processing of input/output and interrupt handling. Overall structure of multiprogramming systems on multiprocessor hardware configurations. Details on addressing techniques, memory management, systems accounting, and other user-related services. Traffic control interprocess communication, design of system modules, and interfaces. System updating, documentation, and operation.

444 Data Communications (5)

Prereq: 442; perm or course in assembly language. Introduction to theory and methodology of computer-to-terminal and computer-to-computer communications using telecommunications facilities. Following topics considered: a) development of data transmission techniques for use on existing telephone network; b) standards and protocols for orderly control of data links between processors; c) software for support of data transmission.

456 Software Design and Development (5)

Prereq: 320 and 361. Introduction to principles and issues concerned with specification, design, implementation, and testing of high quality software. Use of tools, principles, and environments which facilitate development of large software systems. Computer project to partially develop some software product.

458 Operating Systems and Computer Architecture II (5)

Prereq: 442. Continuation of 442. Assembler language programming of system control functions: interrupt handling, virtual storage management, multiprocessing, clocks, CPU/channel states. Multi-user microcomputer systems studied.

462 Data Base Systems I (5)

Prereq: 361. Continuation of 361, covering file structures and data bases. Random, indexed sequential, inverted, and multilist file structures; concepts of data models, data language, data security, and data integrity. Organization, storage, search, and retrieval methods of hierarchical, network, and relational data models discussed.

463 Data Base Systems II (5)

Prereq: 462 and 442. Continuation of 462. Objectives and architecture of generalized data base management system (GDBMS). Models of GDBMS' hierarchical, network and relational. Data definition and data manipulation in GDBMS. File organization in GDBMS. External sorting of large data bases. Survey of some commercial GDBMS. Additional selected topics.

464 Information Organization and Retrieval (5)

Prereq: 462. Structure of semiformal languages and models for representation of structured information. Aspects of natural language processing on digital computers. Analysis of information content by statistical, syntactic, and logical methods. Search and matching techniques. Automatic retrieval systems, question-answering systems. Production of secondary outputs. Evaluation of retrieval effectiveness.

480 Artificial Intelligence (5)

Prereq: 300. Definition of heuristic versus algorithmic methods, rationale of heuristic approach, description of cognitive processes, and approaches to mathematical invention. Objectives of work in artificial intelligence, simulation of cognitive behavior, and self-organizing systems. Heuristic programming techniques including use of list processing languages. Survey of examples from representative application areas. Mind-brain problem and nature of intelligence. Class and individual projects to illustrate basic concepts.

482 Artificial Intelligence Practicum (5)

Prereq: 480. Students will work on a major project in one of the basic areas of AI investigation. These include natural language processing, vision simulation, intelligent data base systems, heuristic state-space search and inferential networks. Emphasis is on program self-modification through feedback mechanisms.

483 Expert Systems (5)

Prereq: MATH 250A, B or equiv. Foundation and development of expert systems using the CLIPS environment.

490 Special Problems in Computer Science (1-15)

Prereq: Jr or sr, 3 400-level courses below 490 and perm. Special project in 1 of various subfields of computer science or application area studied, investigated, and/or solved by individual student or small group working in close relationship with instructor. Suitable problems might include construction of compiler for special purpose artificial language, perfection of computer code to solve some significant problem, or study of coherent subfield of computer science. May be repeated for credit.

491 Senior Seminar (1)

Prereq: sr. Formal presentation by individual students of specified topics from current literature in computer science and defense of interpretations or conclusions.

492 Senior Seminar (1)

Prereq: 491. Continuation of 491. See 491 for description.

493 Senior Seminar (1)

Prereq: 492. Continuation of 491-492. See 491 for description.

496 Computer Science Internship (1-15, max 15)

Prereq: perm.

Computer Science Technology (CTCH)

The following courses for the CTCH degree in computer science technology are available only on the Lancaster campus

125 Introduction to Business Data Processing (4)

Prereq: Grade of C or better in MATH 101 or equiv. Introduces student to computer concepts within framework of business applications. Students do computer assignments including word processing, spreadsheets, data base, and BASIC, as well as readings in computer literature.

135 Basic Programming I (5)

Prereq: 125, C or better, or perm. Introduction to structured computer programming. Students learn how to analyze, design, flowchart, code, test, debug, and document business-oriented computer programs. Programming techniques center on top-down design, flowcharting, documentation, and modular-structured coding.

223A COBOL Programming I (5)

Prereq: 125 or 135, C or better, or perm. Introduces the concepts of structured computer programming using COBOL. Students analyze, design, program, test, and document business-related applications. Emphasis on using top-down design, constructing flowcharts, writing system documentation, and coding modular-structured programs.

223B COBOL Programming II (5)

Prereq: 223A, C or better. Continuation of 223A structured COBOL programming. Major topics include control break processing, table handling, data manipulation, subprograms, and file processing. Top-down design, flowcharts, system documentation, and modular-structured programming are emphasized.

224 Project in Application Programming (5)

Prereq: 223B, C or better. Application of structured system development and modular-structured programming techniques to a business-related computer programming project. Students analyze, design, program, test, maintain, and document a moderately complex business system.

230 Computer Programming I (5)

Prereq: Grade of C or better in MATH 113 or equiv. Basic programming and program structure. Programming and computing systems. Debugging and verification of program. Data representation. Organization and characteristics of computers. Survey of computers, languages, systems, and applications. Computer solution of several numerical and nonnumerical problems using one or more programming languages. PASCAL taught. Not open to those with credit for CS 230 or ET 181.

231 Computer Programming II (5)

Prereq: Grade of C or better in 230 or equiv. Continuation of 230. Introduction to intermediate programming techniques (e.g., recursion, use or pointer variables, back tracking) and data structures. Definitions and specifications of syntax and semantics of programming languages. Continued use of structured language in 230 with examples chosen from nonnumerical problems. Not open to those with credit for CS 231.

235 Basic Programming II (5)

Prereq: 135, C or better. Continuation of 135 structured programming. Topics include control structures, on-line data entry, array handling, and field organization, updating, and processing. Top-down design, flowcharting, system documentation, and modular-structured programming are emphasized.

238 Assembler Programming (5)

Prereq: MATH 113 and 135, C or better, or perm. An introduction to machine organization and structured Assembler language programming. Emphasis on top-down design, flowcharting program logic, and modular-structured coding as applied to Assembler language.

250 FORTRAN (5)

Prereq: MATH 113. Use of the computer to organize, store, control, manipulate, and process data using the FORTRAN language to solve mathematical and scientific programs. Not open to those with credit for CS 230, ET 240, or MIS 420.

260 Introduction to Microcomputers (4)

Prereq: 238 or perm. Introduction to computing and problem solving using microcomputers. File management and graphic capabilities. Operating systems and utilities. Several programs assigned to emphasize techniques.

280 Operating Systems (4)

Prereq: MATH 113 and perm. Designed to give the student a look at different operating systems, such as IBM (OS and DOS) mainframe and microcomputers, and others. How these systems operate and are used. Their similarities and differences. Job Control Language, batch processing, spooling, and CMS facility.

285 Data Base Management (5)

Prereq: 223A. Introduction to the use of Data Base Management Systems. Focus will be on applying the techniques of data base to create effective and efficient systems.

290 Studies in Computer Science (1-5)

Prereq: 125 and at least one programming course, C or better. Provides the opportunity to explore or expand upon subjects or topics not covered or only briefly covered in other CTCH courses. Topics may vary from year to year and may include either business or scientific applications in computer science.

291A Systems Analysis I (4)

Prereq: 125 or 223A or perm. Presents a structured approach to systems development through use of structured analysis methods within the established system life cycle for computer systems.

291B Systems Analysis II (4)

Prereq: 291A. Continuation of 291A, Systems Analysis I, with emphasis placed on design and implementation of computer systems.

295 Introduction to Discrete Structures (5)

Prereq: 23B and MATH 163A or 263A. Review of set algebra including mappings and relations. Algebraic structures including semi-groups and groups. Elements of theory and directed and undirected graphs. Boolean algebra and propositional logic. Applications of these structures to various areas of computer science.

299 Practicum (1-10)

Prereq: perm.

Dance (DANC)

090 Composition Laboratory (0)

This course is to be taken in conjunction with composition classes.

101A Modern Dance Technique I (3)

Prereq: perm. Introduction to basic technical skills of modern dance including alignment, strength, flexibility, rhythmic accuracy, and reproduction of a movement shape.

102A Modern Dance Technique I (3)

Prereq: perm. Continuation of 101A.

103A Modern Dance Technique I (3)

Prereq: perm. Further development of 102A.

101B Ballet Technique I (2)

Prereq: perm. Introduction to ballet and the development of basic technical skills within the classical ballet tradition. Execution of basic ballet vocabulary with an emphasis on classical line.

102B Ballet Technique I (2)

Prereq: perm. Continuation of 101B.

103B Ballet Technique I (2)

Prereq: perm. Further development of 102B.

101C Beginning Composition (2)

Prereq: perm. Exploration of movement materials through improvisation and short problems dealing with rhythm, space, movement qualities, and dynamics.

102C Beginning Composition (2)

Prereq: 101C or perm. Continuation of 101C.

103C Beginning Composition (2)

Prereq: 102C or perm. Further development of 102C.

111 Music for Dance I (2)

Prereq: perm. Nature and principles of rhythmic structure in dance and music.

120 Introduction to Dance (3)

(A) modern dance, (B) ballet, (C) jazz.

150 Viewing Performance (2)

Integrates classroom and student life activities at the University by combining the O.U. Artist Series and major productions of the schools of Music, Dance, and Theater with a seminar course dealing with characteristics of the medium and artistic concerns. A two-hour seminar precedes and follows each of the performances.

170 Viewing 20th Century Dance (4) (2H)

Art of dance from broad point of view, involving dance viewing, literature, and participation. Deals with aesthetic, physiological, social, and cultural aspects.

201A Modern Dance Technique II (3)

Prereq: perm. Development of basic technical skills for modern dance. More complex coordinations which add more spatial and dynamic considerations.

202A Modern Dance Technique II (3)

Prereq: perm. Continuation of 201A.

203A Modern Dance Technique II (3)

Prereq: perm. Further development of 202A.

201B Ballet Technique II (2)

Prereq: perm. Expanded balletic movement vocabulary with continued emphasis on basic technical skills. Musicality will be emphasized.

202B Ballet Technique II (2)

Prereq: perm. Continuation of 201B.

203B Ballet Technique II (2)

Prereq: perm. Further development of 202B.

201C Intermediate Composition (2)

Prereq: 103C or perm. Choreographic studies to enhance the student's understanding and appreciation of the creative process by developing the concepts of rhythm, space, and dynamics into longer, more detailed studies.

202C Intermediate Composition (2)

Prereq: 201C or perm. Continuation of 201C.

203C Intermediate Composition (2)

Prereq: 202C or perm. Further development of 202C.

220 Dance Technique II (2)

Prereq: 120 or equiv. (A) modern dance, (B) ballet, (C) jazz.

230 Introduction to Dance Kinesiology (2)

Introduces student to basic anatomical materials, kinesiological concepts, and their relationship to production of dance movement.

240 Practicum in Teaching Dance I (1)

Prereq: perm. Observation and assistance in student teaching. May be repeated.

250 Ethnic Dance of Non-Western Cultures (2)

Dances from selected non-Western cultures with emphasis on style and related folklore.

255 Ethnic Dance of Western Cultures (2)

Dances from selected Western cultures with emphasis on style and related folklore.

301A Modern Dance Technique III (3)

Prereq: perm. Refinement of technical skills through more complex movement patterns. Additional emphasis on performance, phrasing, dynamics, and spatial concerns.

302A Modern Dance Technique III (3)

Prereq: perm. Continuation of 301A.

303A Modern Dance Technique III (3)

Prereq: perm. Further development of 302A.

301B Ballet Technique III (2)

Prereq: perm. Employment of technical skills through more complex balletic patterns and expanded classical vocabulary. Additional emphasis on performance, phrasing, and dynamics.

302B Ballet Technique III (2)

Prereq: perm. Continuation of 301B.

303B Ballet Technique III (2)

Prereq: perm. Further development of 302B.

301C Advanced Composition (2)

Prereq: 203C or perm. The synthesis of choreographic elements, devices, and musical or sound choices into studies having a sense of form and content.

302C Advanced Composition (2)

Prereq: 301C or perm. Continuation of 301C.

303C Advanced Composition (2)

Prereq: 301C or perm. Further development of 302C.

310 Accompaniment for Dance (2)

Prereq: 111 or perm. Basic problems in accompanying dance and analysis of dance forms related to accompaniment.

312 Music for Dance II (3)

Prereq: 111 or equiv. Also for music composition majors who wish to write for dance theater. History of music for dance. Choreographer-composer relationship.

313 Dance Notation I (3)

Prereq: perm. Principles of dance notation.

320 Dance Technique III (2)

Prereq: 220 or equiv. (A) modern dance, (B) ballet, (C) jazz.

330 Dance Movement Lab (1-3)

Prereq: perm. Addresses individual problems related to the production of movement. Means to augment physical function and expand the qualitative range of the mover are explored.

331 Analysis of Dance Movement (4)

Prereq: 230. Explores skeletal alignment and deviation, muscular development and function, and mechanical efficiency in production of dance movement. Basic to course study is thorough understanding of principles of stability and motion as they relate to dance.

351 Dance Cultures of the World I (4) (2T)

Introduction to dance cultures of world (excluding Western art dance). Function of dance in society and its relationship to other arts.

352 Dance Cultures of the World II (4) (2T)

Same as 351.

353 Dance Cultures of the World III (4) (2T)

Same as 351.

370 Viewing 20th Century Dance (4)

Prereq: not open to students who have had 170; jr and above. Art of dance from broad point of view, involving dance viewing, literature, and participation. Deals with aesthetic, psychological, social, and cultural aspects.

380 Practicum in Dance Production (1)

Prereq: perm. Supervised lab practice in production and/or performance. May be repeated.

385 Dance Repertory (3, max 12)

Prereq: majors only, audition, and perm. Rehearsal and performance of choreographic works taught by choreographer or reconstructors with aid of videotape, film, and/or dance scores.

401A Modern Dance Technique IV (3)

Prereq: perm. Employment of technical skill to address the more subtle demands of performance focus, projection, expressivity, and dynamic range.

401B Ballet Technique IV (2)

Prereq: perm. Employment of technical skills and performance demands within the classical ballet tradition.

402A Modern Dance Technique IV (3)

Prereq: perm. Continuation of 401A.

402B Ballet Technique IV (2)

Prereq: perm. Continuation of 401B.

403A Modern Dance Technique IV (3)

Prereq: perm. Further development of 402A.

403B Ballet Technique IV (2)

Prereq: perm. Further development of 402B.

411 Dance Notation II (3)

Prereq: 313 or perm. Continuation of 313 with more advanced reading and writing in notation.

420 Dance Technique IV (2)

Prereq: 320. (A) modern dance, (B) ballet, (C) jazz.

432 Dance Kinesiology Seminar (2)

Prereq: 331. Assists student to construct anatomically sound and functionally effective dance class.

440 Practicum in Teaching Dance II (2)

Prereq: 240 and perm. Student teaching under supervision.

441 Teaching Dance I (3)

Prereq: perm. Principles of teaching dance and their practical application. Dance for children.

442 Teaching Dance II (2)

Prereq: at least 1 qtr of 240; coreq with 440. Principles of teaching dance and their practical application. Dance for adolescents.

443 Teaching Dance III (2)

Prereq: at least 1 qtr of 240; coreq with 440. Principles of teaching dance and their practical application. Dance for adults.

471 History of Dance I (4) (2H)

Development of Euro-American dance in the 20th century with focus on contemporary dance through the present.

472 History of Dance II (4) (2H)

Tribal forms: survey of dance forms and their functions. Dance motivation from sympathetic magic in tribal societies, in mythic ritual, and in dance-drama.

473 History of Dance III (4) (2H)

Development of Euro-American dance from classic times through 20th-century ballet, with emphasis on Baroque, Romantic, and Diaghilev periods.

480 Production Problems for Dance Theater (2-4, max 4)

Prereq: perm. Includes choreography, performance, and production aspects of senior projects and other dance events.

490 Independent Study (1-10)

Prereq: perm.

494 Internship (1-16)

Prereq: perm. Provides credit for internship experience in which some dance majors may participate. Internship allows individual to gain actual experience in field of dance and related areas, e.g., apprentice/performing, technical production, arts administration.

Design Technology (DTCH)

The following courses for the A.A.S. in design technology are available only on the Lancaster campus.

100 Introduction to Industrial Technology (3)

Overview of design and manufacturing options. Topics include machining, welding, steel production, quality control, interrelation of processes, design concepts, materials, mechanisms, and structures. Plant tours, lab work, and projects involved. Recommended for students having little or no background in mechanical design or manufacturing. 2 lec, 2 lab.

150 Computer Aided Drawing (3)

Prereq: IT 101 or perm. Introduction to use of computers for making engineering drawings. Uses software for personal computers to create multiview drawings of machine parts and other projects selected by student. No computer background required. 6 lab.

200 Engineering Mechanics I (4)

Prereq: MATH 115 or perm. Basic statics and dynamics. Coverage includes vectors, Newton's laws, trusses, frames and machines, friction, moments of inertia, particle kinematics and kinetics, work-energy, impulse-momentum. 4 lec

210 Engineering Mechanics II (4)

Prereq: 200 or perm. Introduction to strength of materials: Axial, torsional, and flexural loadings; plane stresses; beams, columns; deflections; statically indeterminate systems; testing methods. 3 lec, 2 lab.

220 Machine Design (3)

Prereq: 210 or perm. Design of machine elements. Shafts, brakes, clutches, belts, couplings, bearings, springs, gears, fasteners, splines, and keys. Stresses in machine parts, materials applications. 3 lec.

230 Tool Design (4)

Prereq: 150, IT 115, 216, or perm. Basic jig and fixture design. Relat or to manufacturing processes, material requirements, introduction to die design, gauging, and cutting tools. Design projects. Use of standards. 1 lec, 6 lab.

240 Mechanisms (4)

Prereq: 200, IT 121, or perm. Design and analysis of simple mechanisms. Kinematics and kinetics of rigid bodies, graphical analysis of force, velocity and acceleration problems, linkages, instantaneous centers, gear trains, cam, rolling contact. 1 lec, 6 lab.

250 Structural Design (4)

Prereq: 210 or perm. Design of structural components in buildings: foundations, connections, materials selection. Use of industry standards. 1 lec, 6 lab.

299 Special Problems (1-3, max 6)

Prereq: perm. Individual projects or internship experiences under direction of faculty member in design option.

Economics (ECON)

Two opportunities are open to students interested in majoring in economics: a liberal arts program in the College of Arts and Sciences and a business economics program in the College of Business Administration.

Majors in economics in the College of Arts and Sciences must complete the A.B. degree requirements of the college, take MATH 163A, and, in addition, take at least 40 hours of economics including ECON 103, 104, 303, 304, 381, and 385 or 482.

Students with definite career goals are encouraged to follow a specific track within the economics major in the College of Arts and Sciences. A track identifies those electives which are most relevant to a given career. For example, courses most relevant to the prelaw track include ECON 231, 260, 316, 321, 332, 334, and 352. For the policy analysis track, ECON 231, 311, 312, 313, 315, 322. For the business economics track, ECON 231, 305, 320, 332, 340, and 360 are recommended. Additional information can be obtained from the Department of Economics.

A minor in economics consists of a minimum of 28 credit hours in economics including ECON 103, 104, 303, 304, and at least two other courses at the 300 level or above.

Majors in business economics in the College of Business Administration must complete the B.B.A. degree requirements in the college and take at least 20 additional hours of economics including ECON 304 and 385 or 482. ECON 380 and 381 may not be counted toward meeting this 20-hour course requirement.

103 Principles of Microeconomics (4) (2S)

Prereq: MATH 101 or higher math placement. Basic theory and economic analysis of prices, markets, production, wages, interest, rent, and profits.

104 Principles of Macroeconomics (4) (2S)

Prereq: 103 and MATH 101 or higher math placement. Basic theory of national income analysis. Causes of unemployment and inflation. Monetary and fiscal policies of the federal government.

213 Current Economic Problems (4)

Prereq: 103 and 104. Application of economic theory to current economic problems with emphasis on public policy implications. Depressed areas, technological unemployment, economic growth, energy, inflation, and agricultural instability considered.

214 The Economics of War and Peace (4)

Prereq: 103 and 104. Application of techniques of economic analysis to examination of various aspects of national military involvement. Includes consideration of both microeconomic and macroeconomic implications of war and peace.

231 Government Regulation of Business (4)

Prereq: 103 and 104. Social consequences of monopoly and competition. Various policy prescriptions dealing with economic concentration and market structure considered, as well as impact of these policies on U.S. business. Government regulation of business reviewed and evaluated.

303 Microeconomics (4)

Prereq: 103 and 104. Price system as allocative mechanism. Price and production policies of individual firms and consumers under alternative market conditions and analysis of these policies on social efficiency of resource allocation. Students expected to have understanding of elementary algebra and geometry.

304 Macroeconomics (4)

Prereq: 104, jr, soph if major. Factors determining level of nation's economic activity and responsible for growth and stability in nation's economy. Part of course devoted to measures of national income while

remainder consists of analysis of interrelationships among production, price levels, relative prices, employment, and capital formation. Students expected to have understanding of elementary algebra and geometry.

305 Managerial Economics (4)

Prereq: 103, QBA 201, and MATH 163A. Analysis of decision making in enterprise; market environment; measurement of influence of policy and nonpolicy variables on sales and costs; sales, cost, and profit forecasting; empirical studies of market structure and pricing; includes regression analysis using real data.

307 History of Economic Thought (4)

Prereq: 103 and 104. Evolution of major economic doctrines; mercantilists and cameralists, physiocrats, Adam Smith and classical school, historical school, Austrian school, Alfred Marshall and neoclassicists.

308 Modern Economic Thought (4)

Prereq: 103 and 104. Contributions to economics of most significant writers since Alfred Marshall.

310 Urban Economics (4)

Prereq: 103 and 104. Application of economic analysis to urban problems; urban economic growth and structure (location patterns, land use and environment, urban transportation, and housing); human resources in urban economics and public sector in metropolitan context.

311 Inequality of Personal Wealth and Income (4)

Prereq: any course in statistics. Quantitative and qualitative differences in wealth and income between low, middle, and high income groups in society using historical, statistical, and mathematical techniques. Open to all students.

312 Economics of Poverty (4)

Prereq: 103 and 104. Incidence, causes, and consequence of poverty in affluent society. Economic theory, history, statistics applied to analysis of poverty-reduction measures.

313 Economics of the Environment (4)

Prereq: 103. Economic analysis of such environmental matters as air, water, and noise pollution, population growth, and land use. Emphasis placed on use of economic theory and empirical research in evaluating environmental policies.

314 Natural Resource Economics (4)

Prereq: 103, MATH 163A. Explores the economic aspects involved in the extraction and utilization of both renewable and nonrenewable natural resources. Topics include the economics of oil and mineral extraction, groundwater use, agricultural practices, forestry, and fisheries. It also examines the allocation of property rights and economic benefits and costs of natural resource use.

315 Economics of Health Care (4)

Prereq: 103 and 104. Allocating resources to health care, economics of hospital care, health care in U.S. and abroad, supply and demand for nurses, solution of health care problems: paramedics, prepaid plans, malpractice problems.

316 Economics and the Law (4)

Prereq: 303 or 305 or perm. Major topics are property, contracts, and torts. Class time is divided between economic analysis of these topics in the abstract and actual legal cases that involve these topics. Legal cases are analyzed in terms of efficiency and fairness.

320 Labor Economics (4)

Prereq: 103 and 104. Economic forces generating modern labor problems. History of labor movement; labor in politics; labor management relations; wages and full employment.

321 Labor Legislation (4)

Prereq: 103 and 104. Law bearing upon labor problems. Labor relations legislation, old-age and unemployment insurance, worker's compensation, and wages-and-hours legislation.

322 Economics of Human Resources (4)

Prereq: 103 and 104. Current developments in theory, empirical research, and policy with respect to investment in human resources, economic value of education, manpower programs, and growth.

332 Industrial Organization (4)

Prereq: 303 or 305. Market structures, market conduct, and social performance of industries. Emphasis upon firms' strategic behavior in price and nonprice competition. Topics include oligopolistic pricing, strategic entry deterrence, location strategies, product quality, advertising, and research and development. Economic welfare implications of firms' behavior examined.

334 Economics of Antitrust Law (4)

Prereq: 103. Explores the economic behavior of the firm subject to antitrust laws. Topics include collusion, price discrimination, vertical restraints, and other behavior where the intent may be to monopolize a market. Also examines institutional incentives and economic benefits and costs of antitrust laws.

335 Economics of Energy (4)

Prereq: 103. Applies economic theory to analyzing public policy issues regarding energy production and use—including such topics as price controls, import dependency, conservation, supply outlook, and industry concentration.

337 Government Regulation of Business (4)

Prereq: 303 or 305 or perm. Why does the government regulate business? Reasons include the inefficiencies of market power, considerations of fairness, excessive competition, natural monopoly, externalities, and reducing transactions costs. Most class time will be spent on actual legal cases that involve these and related topics.

340 International Trade (4)

Prereq: 103. International trade patterns, theories of absolute and comparative advantage, classical and modern trade theory, tariffs, quotas, nontariff barriers, preferential trading arrangements.

341 International Monetary Systems (4)

Prereq: 104. How exchange rates are determined, fixed vs. flexible rates, government intervention, fiscal and monetary policy in open economy, transmission of inflation and unemployment among nations, international capital movements, covered interest arbitrage, forward exchange, Euro-currency markets.

342 International Economic Policy (4)

Prereq: 340 or 540. Current economic developments of foreign and U.S. economic policy. Commercial treaties and tariff policy, exchange rate instability, balance of payments problems including LDC debt situation, international liquidity issues, trade relations among industrial, underdeveloped and Soviet-block countries, multinational corporations, roles of institutions such as World Bank, International Monetary Fund, and GATT.

350 Economic Development (4)

Prereq: 103 and 104. Nature of, obstacles to, and future possibilities for economic growth of nations. Special emphasis given to problems of underdeveloped countries. Studies of selected countries utilized.

351 Agricultural Development (4)

Prereq: 103 and 104. Patterns of agricultural development: technological and demographic changes in agriculture; socio-economic problems; marketing arrangements; case studies of specific agricultural development projects.

352 Economic History of the United States (4)

Prereq: 103 and 104. Economic factors in development of U.S. including historical growth of economic institutions such as banking, manufacturing, labor unions, and agriculture, from colonial times to present.

353 European Economic History (4)

Prereq: 103 and 104. Economic growth of developed countries. Focus on industrial revolutions in Great Britain, France, Germany, and the former Soviet Union. Historical experience of these countries related to various theories of economic change.

356 Regional Development (4)

Prereq: 103 and 104. Analysis of industrial location and urban growth within regions in connection with community, state, or national planning. Consideration of national policies of aiding special regions, such as Appalachia or metropolitan central city. North-South issues in U.S. and in other nations.

360 Money and Banking (4)

Prereq: 104. Role of money and banking system in determination of national income and output. Monetary theory and policy emphasized.

370 Comparative Economic Systems (4)

Prereq: 103 and 104. Theoretical and institutional characteristics of capitalism and socialism with specific emphasis on prevailing economic systems in U.S., Great Britain, and the former Soviet Union.

372 Economics of the Soviet Union (4)

Prereq: 103 and 104. Operation of economy of the former Soviet Union. Allocation of resources, planning, saving and investment, agriculture, public finance, price system, and international trade.

380 Mathematics for Economists (4)

Prereq: 103 and 104 and perm. Mathematical analysis in economics. Calculus and matrix algebra techniques used prominently in economics literature, together with their application to selected problems in economics.

381 Introduction to Economic Statistics and Econometrics (4)

Prereq: 103 and 104. Statistical methods are developed within an econometric context. Fundamental statistical topics include descriptive statistics, basic probability theory, random variables, sampling, estimation, and hypothesis testing. Specification, interpretation, and economic application of the simple linear regression model are introduced.

385 An Introduction to Economic Methodology and Research (4)

Prereq: 303 (or 305), 304, 381, or equiv. Methods used by economists in investigation of economic problems. First part involves research methods, including contemporary statistical estimation techniques. Second part applies these techniques to investigation of economic phenomena. Types of application include construction and testing of simple econometric model, estimation of production functions, evaluating theories of factor pricing, estimating social costs of pollution, etc.

406 Monetary Theory and Policy (4)

Prereq: 303 (or 305) and 304. Emphasis on monetary economics. Money demand and supply theory and policies for minimizing cyclical fluctuations in economic activity.

425 Public Policy Economics (4)

Prereq: 303 or 305. Survey of economic approach to analyzing public policy issues. Uses concepts of welfare economics, public choice economics, and cost-benefit analysis, as applied to sample of policy subjects.

430 Public Finance (4)

Prereq: 303 or 305 or perm. Role played by government as user of economic resources and redistributor of incomes. Some questions explored: need for government's entry into economy, optimal size of government, selection of tax and expenditures schemes, and effects of government economic activity on private sector.

431 Economics of Transportation (4)

Prereq: 303 or 305. Economics of transport pricing; regulations of transport and national transport policy.

444 Futures Markets (4)

Prereq: 360 or FIN 327 or perm. Contracts, trading, institutions, and strategies, including hedging and speculation. No credit if FIN 444 taken.

455 African Economic Development (4)

Prereq: 350 or perm. Economic characteristics of African societies as traditional economies and in process of modernization.

473 Economics of Southeast Asia (4)

Prereq: 350 or perm. Economic characteristics development problems, strategies, and prospects of countries of Southeast Asia.

474 Economics of Latin America (4)

Prereq: 350 or perm. Economics of Latin American countries, prospects for economic development of the region, nature and origin of institutional obstacles to economic change. Economic heritage of colonial period and subsequent evolution of economic institutions, resources of the area and utilization, and trends in economic activity and policy in post-WWII period.

482 Topics in Econometrics (4)

Prereq: 303 or 305, 381, MATH 163A or calculus, or perm. Basic linear regression models are explored within an econometric context. Simple and multiple linear regression models are introduced under classical assumptions and developed in relation to heteroskedasticity, autocorrelation, multicollinearity, and specification errors. Models with binary regressors, models with qualitative dependent variables, and the simultaneous equations model are introduced. Computer assignments provide experience in empirical social science research.

491 Seminar (3-5)

Prereq: perm. Selected topics of current interest in economics area.

493 Readings (1-15)

Prereq: perm. Readings in selected fields of economics. Topics selected by student in consultation with faculty member.

493X Readings (1-15)

Prereq: perm. Study abroad.

495 Research (3-5)

Prereq: perm. Methodology, analysis of data, and preparation of research findings.

497 Independent Research (1-15)

Prereq: perm. Research in selected fields of economics under direction of faculty member.

Education

All programs and courses in the College of Education satisfy the standards of the Ohio State Department of Education. Students are urged to consult their advisors regarding program requirements and scheduling. In particular, students should note that some pairs or groups of professional education courses must be taken concurrently. Questions may be addressed to Student Services, 124 McCracken Hall.

Counselor Education (EDCE)**102 Life and Career Experiences Analysis (4)**

Prereq: perm from Adult Learning Services. Seminar designed to assist adult students in clarifying career, personal, and educational goals with emphasis on documenting college-level learning from prior experience and documenting this learning for assessment.

201 Career and Life Planning Seminar (3)

Designed to provide knowledge and skill in career and life planning for fr and sophs, especially for those who are undecided about college major and career. Emphasis on identifying strengths, clarifying values, exploring career options, and in developing decision-making skills. Special section for Adult Learning Services students only: designed to provide knowledge and skill in career and life planning especially for adult who is considering job or career change. Emphasis on identifying skills, interests, experience, and values in relationship to new career choices and options.

400 Special Topics in Guidance, Counseling, and Student Personnel (1-5)

Prereq: perm. Independent studies, specialized projects, and seminars on following special topics: alcohol and substance abuse; biofeedback, self-control, and management of stress; marriage and family issues; assertiveness; human sexuality; and Adlerian theory, method, and research (may be repeated for max of 18 hrs).

410 Human Relations (3)

Prereq: jr or perm. Study and practice of developing healthy and mutually satisfying interpersonal relationships. Lecture and discussion groups focus on dynamics of human relationships, factors fostering effective interaction, and significance of self concepts in human communication. Topical headings include value clarification, games people play, self disclosure and trust, conflict resolution, sexuality, prejudice, death and dying, multicultural education, sexism, constructive use of anger, etc.

420 Guidance Practices in Elementary Schools (4)

Need, scope, and nature of elementary guidance surveyed. Guidance approaches and procedures examined for their usefulness in working with children and parents. Roles of elementary school counselor and other pupil personnel specialists reviewed for their contribution to growth and development of children. Opportunity for students to achieve greater self-understanding through involvement in self-appraisal.

430 Guidance in American Secondary Schools (4)

Same as 420. Pertains, however, to secondary schools.

440 Foundations in Group Dynamics (4)

General principles and basic techniques of group dynamics. Interaction in human relations situations that occur in agency settings, business, classrooms, community, resident living, and various types of professionally led training, counseling, and growth groups. Through both cognitive and affective learning opportunities, students learn to understand and use group dynamics principles in areas of personal and professional interaction. Students attend weekly cognitive seminars as well as participate in ongoing group lab.

Curriculum and Instruction (EDCI)**275 Learning Processes in the Classroom (5)**

Prereq: PSY 101 (not available to students who have taken PSY 275) *R. Mitias*. Focuses on major aspects of learning theories, their implications, and applications to classroom situations as well as aspects of measurement and evaluation.

331J Educational Research Techniques and Writing (4) (1J)

Prereq: jr. *Staff*. Concentration upon communication skills of reading, writing, and speaking, utilizing educational writings dealing with history of education, philosophy, psychology, sociology, and current issues. Development of critical reading, effective writing, and speaking skills.

401 Advanced Field Experience—Multicultural (2)

Prereq: jr and completed application in Student Services for advanced standing. *Staff*. Participation in multicultural setting as scheduled, either prior to or following fall qtr. These experiences provide opportunities to work with students in a multicultural setting.

461 Introduction to Individualization of Education (4)

Prereq: perm. *M. Johnson*. Broad objective of course is for each participant to develop knowledge of major concepts for individualization of education and to demonstrate this knowledge through creation of instructional package ready for implementation in classroom setting. Course focus is to facilitate study of major components necessary for teacher to implement individualized instruction in classroom.

465 Introduction to Teaching the Talented and Gifted (4)

A. Leep. Provides introduction to rationale, scope, and nature of concerns relative to education of gifted youth. Attention given to overview of problems and issues; including (A) societal factors that influence programs, (B) characteristics and identification of gifted youths, and (C) current and recommended programs.

480 The Teacher, School, and Society (4)

Prereq: adv standing. Cannot be taken while student teaching. *A. Clubb, W. Pader, E. Reid, E. Stevens, G. Wood*. Current trends and issues in American secondary education; utilizing materials drawn from social and cultural foundations of education.

492 Workshop in Curriculum and Instruction (1-15)

Prereq: perm. *Staff*. Designed to provide practicing teachers and other instructional personnel with in-service education directed toward their identified needs. Facilitates offering of short courses, workshops, and summer institutes. Areas of concentration currently available: (A) Language Arts, (B) Social Studies, (C) Science, (D) Mathematics, (E) Reading, (F) Kindergarten, (G) Individualizing Instruction, (H) Team Teaching, (I) Interaction Analysis, (J) Developing Behavioral Objectives, (K) Curriculum Development, (L) Interdisciplinary Topics, (M) Special Topics, (N) Special Education Topics, (O) Supervision of Instruction, (P) Education for Gifted.

Economic Education (ECED)**346 Economics in the Curriculum (4)**

Rader. For teacher-education students, provides study of (A) fundamental economic concepts, (B) methods of inquiry employed by economists, and (C) relationship of economics content to classroom instruction and instructional materials. Not recommended for students who have completed ECON 103 and 104.

491 Seminar (3-5)

Prereq: perm. *Rader*. Selected topics of current interest in economic education.

492 Research (3-5)

Prereq: perm. *Rader*. Methodology, analysis of data, and preparation of research findings.

493 Readings (1-15)

Prereq: perm. *Rader*. Readings in selected areas of economic education.

497 Independent Research (1-15)

Prereq: perm. *Rader*. Research in selected fields of economic education under direction of faculty member.

498 Internship (1-15)

Prereq: perm. *Rader*. Individual projects under faculty supervision. May be repeated to a maximum of 15 hours.

Educational Administration (EDAD)**452 Problems in Administration of Education (1-4)**

Prereq: perm. Variable-topic course for independent study, institutes, and workshops.

Educational Media (EDM)**201 Use of Library Resources I (3)**

J. McCutcheon, S. Roberts. Designed to acquaint student with resources available in academic library. Students learn to analyze information needs and to develop systematic approach toward solution.

289 Sophomore Practicum (2)

Prereq: soph, perm. *S. Roberts*. Practicum designed to provide professional experience for sophs who have declared majors in K-12, and noncertificated media management. Also, field experience will provide opportunity for evaluation of performance at soph level. Must arrange qtr before.

301 Library Service to Children (4)

S. Roberts. Aspects of library work with children, investigated through films, texts, current articles, field trips, and group discussion. Participants practice skills in storytelling with groups of children in library situations. Selection of library media materials important part of coursework.

302 Adolescent Materials and Services (4)

S. Roberts. Selection process for secondary school library media center, involving examination and evaluation of books and nonbook materials; problems of maintaining intellectual freedom and planning of programs for library media center.

303 Teaching Library Skills K-12 (3)

Prereq: jr, 289, perm. *S. Roberts*. Instructional program for teaching student skills related to gathering and utilization of information. Development of sequential program of library/media center instruction which can be followed from kindergarten through grade 12, including methods and materials for instruction.

305 Use of Library Resources II (3)

Prereq: 201. *S. Roberts*. Study directed toward specific subjects: philosophy, psychology, fine arts, literature, history, social science, education, science and technology, and references relevant to them. Analysis of information needs and methods of meeting those needs.

332 Microcomputer: Applications in Education (4)

Prereq: soph. *B. Beach, M. Flemister*. Provides preservice educators with introduction to use of microcomputers in education. Emphasis on evaluating hardware and software, exploring educational applications, and developing introductory program-writing skills.

389 Junior Practicum (2)

Prereq: jr, 289, perm. *S. Roberts*. Practicum designed to provide professional experience for jrs who have declared majors in K-12, and noncertificated media management. Also, field experience will provide opportunity for evaluation of performance at jr level. Must arrange qtr before.

397T Media Tutorial (1-15)

Prereq: Honors Tutorial College and perm.

402 Advanced Library/Media Studies (2-5)

Prereq: perm. *J. McCutcheon, S. Roberts*. Elective designed for student who wants to explore some facet of library work in greater depth.

403 Classification and Cataloging (5)

S. Roberts. Classifying and cataloging books and other print materials for high school library media center. Students make sample card catalog.

404 Basic Cataloging of Nonprint Materials (4)

Prereq: 403 or perm. *S. Roberts*. Cataloging nonprint materials with practice in preparation of catalog cards. Establishing procedures and guidelines relative to cataloging of nonprint materials whereby these materials may be integrated into library catalog and materials intershelved.

480 Introduction to Educational Media (4)

Prereq: jr. *J. McCutcheon, staff*. Application of principles of educational technology and media to teaching-learning situation. Includes lab experiences in basic production of materials and equipment operation.

480A Introduction to Educational Media (2)

Prereq: EDSE 250, EDSE 250L, EDSE 270L, admission to jr. *J. McCutcheon, staff*. Clinical experience designed to provide secondary teacher education student with expertise in: (A) operation of audiovisual equipment; (B) demonstration/display board design; (C) spirit duplication; (D) mounting and preservation of materials; and (E) preparation of handmade and thermographic transparencies.

481 Fundamentals of Instructional Design and Development Media Emphasis (4)

Prereq: 332, 480, 482, and perm. *Staff*. Investigation of principles and practices of integrating media into instructional process, including design and application of interactive instructional materials. Media examined within context of instructional design process, nature of communication, teaching, and learning.

482 Production of Instructional Material (4)

Prereq: jr and 480 or perm. *J. McCutcheon*. Develops basic techniques for design and production of wide variety of instructional and display materials. Includes lab experiences, illustration, lettering, coloring, preservation, and reproduction techniques used in creating educational displays, slide programs, transparencies, and other projected and nonprojected materials.

483 Selection and Evaluation of Media (4)

Prereq: 480. *S. Roberts*. Principles for selection and evaluation of print and nonprint media; use of standard selection aids and reviews, writing of annotations, policies governing building and maintenance of collection covered.

488 Practicum in Educational Media (3)

Prereq: 403, 480, and 489. *J. McCutcheon, S. Roberts.* Supervised library media field experience of professional nature of not fewer than 90 clock hrs. Because of nature of course, student must obtain perm 1 qtr previous to enrollment in course.

489 Organization and Administration of Educational Media Programs (5)

Prereq: 351 or perm. *J. McCutcheon.* Organization and administration practices for educational media programs in individual schools, school districts, and industrial settings. Emphasis on budget procedures, staffing, acquisition, organization, and evaluation techniques.

Elementary Education (EDEL)**200 Studies of Children (4) (2S)**

Prereq: Adm. to Pro. Ed. *J. McMath.* Bases for developmental theory of education; growth sequences through adolescence; principles of development, behavior, and learning; techniques of child study; implications for educational practice. No credits awarded if HECF 160 or PSY 273 has been taken.

200L Studies of Children—Field/Clinical (1)

Prereq: Adm. to Pro. Ed. *J. McMath.* Designed to provide series of coordinated clinical/field experiences complementary to 200. Places students in public school settings for observations and activities related to study of child development.

306 Kindergarten Theory and Methods (6)

Prereq: jr in teacher education. *J. McMath.* Combines evolving theory of education in kindergarten with selection and uses of learning materials through lab practice and participation experiences in local schools.

310 Teaching the Language Arts in the Elementary School (3)

Prereq: adv standing in Ed. *W. Smith.* Methods course in teaching areas of language arts other than developmental reading. Treats basic information in language development, oral and written language activities, spelling, penmanship, grammar, usage, poetry and drama, language arts organization and management, and evaluation and remediation techniques in language arts areas.

310L Teaching the Language Arts Field and Clinical Experience (2)

Prereq: adv standing in Ed.; coreq with 310. *W. Smith.* Field/clinical component for 310. Designed to give elementary education majors practical field and clinical experiences in public schools and is complementary to theory presented in 310.

311 Teaching of Reading in the Elementary School (4)

Prereq: adv standing in Ed. and 310, 310L. *S. Rebottini, W. Smith.* Preservice preparation for teaching of developmental reading, K-6; text and supplementary readings; lecture, demonstration, and discussion; multimedia resources; observations and participation in schools; projects for practical competence.

311L Teaching of Reading in the Elementary School Field/Clinical (1)

Prereq: adv standing in Ed.; coreq with 311. *S. Rebottini, W. Smith.* Field/clinical component to accompany 311. Gives elementary education majors practical field and clinical experiences in public schools and is complementary to theory presented in 311.

321 Children's Literature (3)

Prereq: adv standing in Ed. *J. McMath.* Treats body of literature, by genre, appropriate for children from preschool through middle school age and various techniques for utilizing children's literature in school setting.

321L Children's Literature—Field/Clinical (1)

Prereq: adv standing in Ed.; coreq with 321. *J. McMath.* Field component for 321. Same as above.

330 Teaching Mathematics in the Elementary School—Kindergarten through Grade 3 (2)

Prereq: adv standing in teacher education and MATH 120-121-122 or equiv. *B. Beach, C. Smith.* Examination of methods and materials used in teaching of mathematics in elementary school programs. Special emphasis on use of mathematical models, adjusting instruction for individual pupil growth, and diagnosing learning difficulties in lower elementary school (K-grade 3).

330L Teaching Mathematics in the Elementary School—Kindergarten through Grade 3—Field/Clinical (1)

Prereq: adv standing in teacher education; coreq with 330. *B. Beach, C. Smith.* Students will observe and teach mathematics lessons in elementary school under supervision of course instructor. Proficiency in use of mathematical models and manipulative teaching aids demonstrated by each student in mathematics education lab. Field experiences will take place in primary (kindergarten-grade 3) classroom.

331 Teaching Mathematics in the Elementary School—Grades 4-8 (2)

Prereq: 330. *B. Beach, C. Smith.* Examination of methods and materials used in teaching of mathematics in elementary school programs. Special emphasis on use of mathematical models, adjusting instruction for individual pupil growth, and diagnosing learning difficulties in upper elementary school (grades 4-8). Continuation of 330.

331L Teaching Mathematics in the Elementary School—Grades 4 through 8—Field/Clinical (1)

Coreq with 331. *B. Beach, C. Smith.* Students observe and teach mathematics lessons in elementary school under supervision of course instructor. Proficiency in use of mathematical models and manipulative teaching aids demonstrated by each student in mathematics education lab. Field experiences will take place in upper-grade-level classroom (grades 4-8).

340 Teaching of Science in the Elementary School (4)

Prereq: adv standing in teacher education; 12 hrs of science; completion of one course in each of the following science areas: Life, Physical, Earth. *R. Martin.* Materials and methods of teaching science in elementary schools. Textbooks, science equipment, and related instructional materials used in lab lessons.

340L Teaching Science in the Elementary School—Field/Clinical (1)

Prereq: adv standing in teacher education; 12 hrs of science; completion of one course in each of the following science areas: Life, Physical, Earth; coreq with 340. *R. Martin.* Practice teaching elementary science lessons in an approved setting.

350 Teaching of Social Studies in the Elementary School (3)

Prereq: 12 hrs of social science including GEOG 121, adv standing in teacher education. *W. Rader, W. Singleton.* Materials and methods in teaching social studies in elementary schools. Special emphasis on practical experience in preparation and teaching of units.

350L Teaching of Social Studies in the Elementary School—Field/Clinical (1)

Prereq: 12 hrs of social science including GEOG 121, adv standing in teacher education; coreq with 350. *W. Rader, W. Singleton.* Field/clinical component to accompany 350. Gives elementary education majors practical field and clinical experiences in public schools and is complementary to theory presented in 350.

372 Managing an Elementary School Classroom (2)

Prereq: adv standing in teacher education. *B. Beach, S. Rebottini, W. Smith, staff.* Provides preservice teacher with knowledge and skills to manage records, learning environment, and pupils within elementary school learning setting (e.g., classroom, playground, etc.).

411 Diagnosis and Treatment of Reading Disabilities (4)

Prereq: 311/311L or EDSE 420. *S. Rebottini, W. Smith.* Correlates of variability in reading proficiency. Incidence of retardation and disability. Proposed causes of failure and concept of multiple causation. Specialized materials and instructional efforts. Systematic observation of cases of reading disability and preparation of case report.

412 Reading Laboratory Practicum (4, max 12)

Prereq: sr, 411. *S. Rebottini, W. Smith.* Application of developmental approach to problem cases in reading instruction, participation in diagnostic examination, parent and teacher conferences, individual procedures in tutoring, staffing of cases, and preparation of report (wkly group discussion period, lab sessions arranged).

430 Modern Elementary Mathematics Curriculum (3)

Prereq: 330, 330L, 331, 331L. *B. Beach, C. Smith.* Modern elementary mathematics curriculum with emphasis on why changes are occurring. Nature of changes as reflected from experimental programs, effect of changes on methods of teaching, implementation of these changes in classroom.

460 The Child and the Curriculum (4)

Prereq: adv standing, sr. *C. Smith, K. Viechnicki, staff.* Develops purpose for elementary education through study and research of curriculum and learning problems. Emphasis on service role of elementary school curriculum to child and society and role of teacher in laying educational foundations in development of self-worth for each child.

490 Study in Elementary Education (1-S, max 15)

Prereq: perm of dept chair. *Staff.* Independent and/or group study of some special interest and concern (problems, area, questions) under guidance of staff; assigned and suggested readings and other resources and experiences; frequent conferences; preparation of final report.

International and Comparative Education (EDIC)**205 Learning from Non-Western Cultures (4)**

Prereq: soph or perm. *W.S. Howard.* Exploration of alternative "ways of seeing" and "ways of knowing," esp. in cultures of the non-Western world (i.e., Africa, Asia, Latin America). Building skills in personal investigations of life and learning in other cultures.

420 Comparative Cultures and Education (4)

Prereq: perm. *W.S. Howard.* Emphasis on distinctive cultural, economic, and political forces which shape patterns, problems, and roles of education in some selected developed and developing nations. These include U.S., some European countries, and at least one African and/or Asian nation where former or present Western culture has impact. Assessment of this impact especially on educational developments.

425A Education and Development in Africa (4)

Prereq: perm. *W.S. Howard.* Interdisciplinary course focusing on tradition and change in African societies, problems of political independence, economic development, cultural values in transition, tribalism and nationalism, and role of Africa in world peace and international cooperation. Tradition and change in African education, landmarks in African educational developments, and role of education in economic and technological development. Issues and problems in African education.

425B Education and Development in Asia (4)

Prereq: perm. *W.S. Howard.* Same emphasis as 425A on tradition and change in society, culture, and education, and role of education in national development and international understanding; discussion of pertinent educational issues and problems.

425C Education and Development in Latin America (4)

Prereq: perm. *W.S. Howard.* Same emphasis as 425A-425B on tradition and change in society, culture, and education, and role of education in national development and international understanding; discussion of pertinent educational issues and problems.

450 Teaching Strategies for Cultural and International Understanding (4)

Prereq: perm, sr. *Staff.* Psychological and sociological foundations of cultural values and ways of life investigated. Strategies for developing cross-cultural understanding and cooperation studied. Emphasis on innovative approaches to learning for elementary and secondary school pupils.

Middle School Education (EDMS)

250 Analysis of Teacher Characteristics and Teaching Tasks (4)

Prereq: PSY 101; admission to teacher education; coreq with 250L, 270, and 270L. *R. Martin, R. Skinner, C. Wood.* Immediate focus on teaching tasks and models, training in systematic observation and analysis, peer teaching, and tools for self-analysis. Recommended that EDCI 275 or PSY 275 be taken concurrently with or following this course.

250L Analysis of Teaching Characteristics and Teaching Tasks Field Experience (2)

Prereq: PSY 101; admission to teacher education; coreq with 250, 270, and 270L. *R. Martin, G. Wood.* Immediate focus on performance of undergraduate student in act of teaching in secondary school setting. Major emphasis on developing systematic skills in observation and analysis of teaching. Each student will work with cooperating teacher during qtr. Students will teach several micro-teaching lessons in schools. Session will be videotaped so students may analyze their teaching performance while viewing videotapes in clinical setting. Recommended that EDCI 275 or PSY 275 be taken concurrently with or following this course.

270 Studies of the Learner: Development and Exceptionality (3)

Prereq: PSY 101; admission to teacher education; coreq with 250, 250L, and 270L or comparable field experience. *R. Martin, J. Safran.* Focus on study of human growth and development, both normal and exceptional, of preadolescents and adolescents. Major emphasis on effect of cognitive, physical, social, and emotional developmental changes on learner and on comprehensive survey of nature and educational needs of exceptional students.

270L Studies of the Learner: Development and Exceptionality Field Experience (1)

Prereq: PSY 101; admission to teacher education; coreq with 250, 250L, and 270. *R. Martin, J. Safran, staff.* Field experience enables students to observe evidence of diversity in cognitive, physical, social, and emotional development during preadolescence. Students observe and analyze characteristics of growth and development and exceptionalities in variety of field settings.

351 Middle School Instructional Processes and Curriculum (5)

Prereq: 250, 250L, 270, 270L, EDCI 275 or PSY 275, jr. *M. Johnson.* To ensure that preservice teacher builds large repertory of teaching strategies and techniques. This learning experience will allow preservice teacher to gain sufficient knowledge for selection of appropriate techniques and methods to match learner situation, teacher personality, pupil needs, and subject for enhancement of learning. Preservice teacher must gain knowledge and skills in techniques and strategies for preparing interesting learning situations and stimulating thinking.

360 Field Experience Middle School Education (1-5)

Prereq: EDMS 250 or EDSE 250. *M. Johnson.* Emphasis on practicing systematic observation and analysis of teaching and students. The student works very closely with his/her cooperating teacher in planning and teaching short lessons as an integral part of the experience.

412 Middle School Education/Curriculum (4)

Prereq: 351 and admission to advanced standing. *M. Johnson.* Concentrates specifically on the early adolescent. Special emphasis on uniqueness, philosophy, rationale, purpose, organization, and other related concepts essential to the development of a middle school education program.

490 Independent Study (1-5)

Prereq: adm to EDMS Program and jr. *J. Safran.* Independent study provides the student an opportunity to focus on some special interest, research, problem, research, or other advanced study in a particular field under staff guidance. Suggested readings and other resources depend upon need and interest of the individual. Frequent conferences, preparation of final report.

Professional Laboratory Experience (EDPL)

360 Field Experience in Elementary or Secondary Schools (2)

Prereq: jr, perm. *Staff.* Observation and participation in elementary and secondary schools. Prior approval must be secured from Field Experience Office in May for those planning experiences in August-September period and in November for those planning participation in December. May be repeated.

361 Field Service in Education (2)

Prereq: soph. *Staff.* Participation in community agencies, summer camps, recreation programs, Head Start, and various school-related programs. Arrangements must be made in Field Experiences Office prior to participation.

460 Observation and Participation in Elementary or Secondary Schools (3)

Prereq: perm. *Staff.* Extensive participation in school program extending over period of 1 qtr, designed primarily for students with some classroom teaching experience, especially students from other countries.

461 Student Teaching in Elementary Schools (7)

Prereq: perm. *Staff.* Assigned responsibility for teaching under supervision of master teacher in classroom in K-6 range for 1 qtr, full-time. Concurrent registration in 461, 462, and 465 is required of all elementary education, speech therapy, and special education majors. Concurrent registration in 461, 463, and 465 is required of majors in arts, music, and physical education.

462 Student Teaching in Elementary Schools (6)

Prereq: 461. Continuation of 461. See 461 for description.

463 Student Teaching in Secondary Schools (6)

Prereq: perm. *Staff.* Assigned responsibility for teaching under supervision of master teacher in classroom in 7-12 range for 1 qtr, full-time. Concurrent registration in 463-464-465 is required of all majors in secondary academic areas, home economics, and industrial arts. Majors in art, music, and physical education must register concurrently for 461, 463, and 465.

464 Student Teaching in Secondary Schools (7)

Prereq: 463. Continuation of 463. See 463 for description.

465 Student Teaching Seminar (3)

Staff. Analysis and interpretation of student teaching experience. Problem-centered discussion of major areas of concern directly related to classroom teaching. Structured discussion of unit and lesson planning, evaluation, classroom management, pupil adjustment, effects of recent legislation upon classroom teacher, position procurement, professional ethics, and professional organizations. Concurrent enrollment for 13 qtr hrs credit in student teaching required.

466 Student Teaching for Advanced Students (6-9, max 9)

Prereq: perm. *Staff.* Supervised observation, participation, and limited teaching; open only to elementary education degree candidates and selected secondary education and special education with a minimum of 3 yrs of prior teaching experience.

Secondary Education (EDSE)

250 Analysis of Teaching Characteristics and Teaching Tasks (4)

Prereq: PSY 101, INCO 103; admission to teacher education; coreq with 250L, 270, and 270L. *K. Hillkirk, R. Martin, E. Reid, G. Wood.* Immediate focus on teaching tasks and models, training in systematic observation and analysis, peer teaching, and tools for self-analysis. Recommended that EDCI 275 or PSY 275 be taken concurrently with or following this course.

250L Analysis of Teaching Characteristics and Teaching Tasks Field Experience (2)

Prereq: PSY 101, INCO 103; admission to teacher education; coreq with 250, 270, and 270L. *Staff.* Immediate focus on performance of undergraduate student in act of teaching in secondary school setting. Major emphasis on developing systematic skills in observation and analysis of teaching. Each student will work with cooperating teacher during qtr. Students will teach several micro-teaching lessons in schools. Session will be videotaped so students may analyze their teaching performance while viewing videotapes in clinical setting. Recommended that EDCI 275 or PSY 275 be taken concurrently with or following this course.

270 Studies of the Learner: Development and Exceptionality (3)

Prereq: PSY 101, INCO 103; admission to teacher education; coreq with 250, 250L, and 270L or comparable field experience. *J. Safran.* Focus on study of human growth and development, both normal and exceptional, of preadolescents and adolescents. Major emphasis on effect of cognitive, physical, social, and emotional developmental changes on learner and on comprehensive survey of nature and educational needs of exceptional students.

270L Studies of the Learner: Development and Exceptionality Field Experience (1)

Prereq: PSY 101, INCO 103; admission to teacher education; coreq with 250, 250L, and 270. *Staff.* Field experience enables students to observe evidence of diversity in cognitive, physical, social, and emotional development during preadolescence and adolescence. Students observe and analyze characteristics of growth and development and exceptionalities in variety of field settings.

297T Secondary Education Tutorial (1-15)

Prereq: Honors Tutorial College and perm.

298T Secondary Education Tutorial (1-15)

Prereq: Honors Tutorial College and perm.

299T Secondary Education Tutorial (1-15)

Prereq: Honors Tutorial College and perm.

351 Middle School and High School Instructional Processes and Curriculum (5)

Prereq: 250, 250L, 270, 270L, EDCI 275 or PSY 275, jr. *A. Clubok, K. Hillkirk, M. Johnson.* To ensure that preservice teacher builds large repertory of teaching strategies and techniques. This learning experience will allow preservice teacher to gain sufficient knowledge for selection of appropriate techniques and methods to match learner situation, teacher personality, pupil needs, and subject for enhancement of learning. Preservice teacher must gain knowledge and skills in techniques and strategies for preparing interesting learning situations and stimulating thinking.

397T Secondary Education Tutorial (1-15)

Prereq: Honors Tutorial College and perm; 297T and 299T.

398T Secondary Education Tutorial (1-15)

Prereq: Honors Tutorial College and perm; 297T and 299T.

399T Secondary Education Tutorial (1-15)

Prereq: Honors Tutorial College and perm; 297T and 299T.

420 Teaching of Reading in the Content Areas (4)

Prereq: 250, 270, EDCI 275 or PSY 275, 351, jr. *A. Blake-Stalker.* Materials, methods, and techniques for teaching adolescent learners of various abilities. Emphasis on diagnosis of reading difficulties and adaptation of materials and teaching methods for content area instruction. Must be taken concurrently with 420L, and it is recommended that it also be taken at same time student is enrolled in special methods courses, if possible.

420L Teaching of Reading in Content Areas: Field Experience Component (1-2)

Prereq: 250, 270, 351, EDCI 275 or PSY 275, jr; coreq with 420. *A. Blake-Stalker.* Field experience to provide practical applications of materials, methods, and techniques of secondary reading instruction as appropriate in various secondary settings. Student will tutor assigned secondary school student in secondary school setting. It is recommended that 420 and 420L be taken at same time student is enrolled in special methods courses, if possible.

470 Teaching of Bookkeeping and Basic Business (4)

Prereq: 351 and ACCT 202. *W. Rader*. Materials, methods, and techniques in teaching bookkeeping and basic business subjects.

471 Teaching Mathematics in Middle and Junior High School (3)

Prereq: 351. *B. Beach*. Organization and methods of teaching subject matter of mathematics curriculum in grades 7 and 8. Number system studied.

472 Teaching of Earth Science (3)

Prereq: 351. *R. Martin, R. Mitias, R. Skinner*. Instructional materials and techniques related to teaching earth science.

472L Field Experience (1-2)**478 Teaching of Physical Science (3)**

Prereq: 351 and perm. *R. Martin, R. Mitias, R. Skinner*. Instructional materials, classroom methods, sources of lab equipment and supplies, and teaching techniques in physical sciences.

478L Field Experience (1-2)**479 Teaching of the Social Studies in Junior and Senior High Schools (4)**

Prereq: 351. *A. Clubok*. Nature, development, purpose, and value of social studies, with emphasis on methods and techniques of instruction. Curriculum reorganization, unit planning, materials of instruction, and evaluation.

490 Studies in Secondary Education (1-5, max 15)

Prereq: perm of dept chair. *Staff*. Honors students or students seeking honors in secondary education may register for this course.

497T Secondary Education Tutorial (1-15)

Prereq: Honors Tutorial College and perm; 397T.

498T Secondary Education Tutorial (1-15)

Prereq: Honors Tutorial College and perm; 398T.

499T Secondary Education Tutorial (1-15)

Prereq: Honors Tutorial College and perm; 397T and 399T.

Special Education (EDSP)**260 Field Experiences in Special Education (Block II) (2)**

Prereq: special education block I. *J. Yanok*. This course provides a practical, field-based learning experience involving classroom observations and teacher-aiding activities. Over a 10-week period each student will be required to complete a minimum of 40 field work hours in an approved special education placement. Supervision and evaluation of this practicum will be performed by the University supervisor in consultation with the cooperating supervisory teacher.

270 Classroom Management of Children with Problem Behaviors I (3)

Prereq: special education block I. *M. Roth*. Develops teacher skills applicable in field teaching, student teaching, and professional teaching. Emphasizes applied behavioral techniques to reduce behavioral problems, maximize learning, and increase pupil and teacher rapport. Procedures will systematically move from teacher control to shared control with learner to learner self-control techniques.

271 Introduction to Education of Exceptional Children and Youth (4)

L. Jageman, M. Roth, S. Safran, S. Sparks, J. Yanok. Comprehensive survey of special education programs emphasizing multidisciplinary approach, integration and current trends in providing instruction to persons with exceptionalities. Includes clinical and/or field experience.

272 Introduction to Education of Mentally Retarded Children and Youth (3)

Prereq: special education block I or perm. *S. Sparks*. Etiology, diagnosis, classification, learning potential, and general characteristics of retarded child with emphasis on psychosociological impact of retardation upon individual, family, and community.

355 Microcomputers in Special Education (4)

Prereq: 271 and EDM 332. Provides students with the knowledge and experience necessary to use microcomputers with special needs persons. Consideration given to the functionality of hardware, software, and peripherals available for use with special needs individuals in a variety of educational settings.

360 Field Experiences in Special Education (Block III) (3)

Prereq: special education blocks I, II. *S. Sparks*. Field based course operating concurrently with and providing student with opportunities to apply skills and knowledge taught in professional courses in block III. Done through observation, participation, interview, tutoring, and group teaching in public schools and related agencies where DH children and youth are taught/trained.

361 Field Experience in Special Education (3)

Prereq: special education block II and jr in special education. *M. Roth*. Practical application of concepts and skills introduced in courses of special education block IIb; supervising, evaluating, managing, and teaching persons with multiple handicaps. Students will have choice to work with preschool, school age, or adult individuals.

370 Classroom Management of Children with Problem Behaviors (II) (3)

Prereq: 270, special education block II or perm. *L. Jageman*. Furthers student understanding of pupil behavior and skills essential to teaching children/youth with DH, LD, or BD. Includes individual and group interaction strategies, organization, and techniques for effective classroom management, instruction, and learning.

371 Teaching the Preschool Handicapped (3)

Prereq: special education block II or perm. *S. Sparks*. Purpose, organization, and methods utilized for education of handicapped children. Variety of program models and delivery systems covered.

372 Language Development for the Handicapped (3)

Prereq: special education block II or perm. *Staff*. Examination of language acquisition of handicapped children with primary emphasis on mental retardation. Methods and materials in evaluation and training of receptive and expressive oral language and alternative communication modes presented.

373 Curriculum and Materials for the Exceptional Learner (4)

Prereq: special education block I. *L. Jageman*. An overview of the curriculum development process as well as guidelines and procedures for designing and analyzing comprehensive instructional programs appropriate to exceptional learners. Emphasis on preparation, selection, implementation, and evaluation of curricula.

374 Language Development and Adaptations for the Exceptional Learner (3)

Prereq: special education block II. *J. Yanok*. This course examines normative and aberrant language acquisition patterns among children. Specifically, methodology for diagnosing and remediating the oral and written communication disorders of developmentally delayed students will be presented.

375 Methods and Materials for Teaching Developmentally Handicapped Students (4)

Prereq: special education block II. *S. Sparks*. Organization and methods of teaching in the area of developmental handicaps (DH). In addition to selection, planning, and teaching of appropriate units in the DH classroom, emphasis is on implementation of current theory and research to strengthen personal-social-vocational adjustment of DH children.

376 Mathematics for the Mentally Retarded and Learning Disabled (4)

Prereq: special education block III. *L. Jageman*. Organization, methodology, and materials for teaching basic math concepts and skills which have particular relevance to social and vocational adequacy of mentally retarded children and youth at all levels of instruction.

377 Career and Vocational Education for the Exceptional Learner (4)

Prereq: special education block II or perm. *J. Yanok*. This course presents a comprehensive overview of the continuum of vocational options for the handicapped at the secondary and post-secondary levels. Additionally, procedures for preparing exceptional persons to fulfill their career roles as family members and community residents, as well as workers, will be examined.

378 Principles of Work for Persons with Disabilities (3)

Prereq: 272. *L. Jageman*. Develop skills for understanding and application of agency mission, work values, plant layout, production flow, work site analysis, ergonomics, adaptive fixturing, time study, scheduling, work motivation, quality control, safety, evaluation, and records to enhance sheltered or community employment programs for persons with disabilities.

379 Principles of Habilitation Programming for Persons with Disabilities (3)

Prereq: 272 or perm. *L. Jageman*. Designed to develop understanding of objectives, organization, methods, materials, and programs essential to teaching handicapped persons self-care, homemaking, family, and community skills. Includes structured weekend field experience with adult retarded in residential group home.

400 Nature and Needs of Severe Behavior Handicapped (4)

Prereq: 271, PSY 101 or perm. *S. Safran*. Basic understanding of characteristics of students with severe behavior handicaps. Topics include conceptual models of disturbance/abnormal psychology, classification, identification of assessment, internalizing and externalizing behaviors/disorders, problems of adolescence, and community agencies. Both educational and psychological perspectives emphasized.

401 Methods of Teaching the Severe Behavior Handicapped (4)

Prereq: 400 or perm. *S. Safran*. Various methods of educating and treating students with severe behavior handicaps, including psychoeducational techniques, affective education, behavior management, social skills training, and identification strategies.

435 Recreation and Physical Education for the Mentally Retarded and Learning Disabled (5)

Prereq: special education block II or perm. *Staff*. Preparation for presenting activities and evaluating children and youth with disabilities in areas of body mechanics, physical fitness, games of low organization, sports, rhythms, stunts, tumbling, and recreation activities.

460 Field Experience in Special Education (Block V) (3)

Prereq: special education blocks I, II, III, IV. *B. Reeves*. Field-based experience designed to provide supervised practical experience through tutoring LD child or youth in public school setting. Field experience includes diagnostic-prescriptive teaching in areas of reading, arithmetic, and language arts.

461 Field Experience in Special Education—Multiple Handicapped (Block IVb-MH certification) (3)

Prereq: special education block IIIb and jr in special education. (Spring) *M. Roth*. Practical application of concepts and skills introduced in special education block IVb courses. Application of curriculum and materials based on the needs of persons with multiple handicaps with particular emphasis on the future teacher's individualized improvement plan.

462 Field Experience in Special Education—Severe Behavior Handicapped (3)

Prereq: 400; coreq with 401. *S. Safran*. Working directly in classes with students identified as severe behavior handicapped. Includes individual and small group instruction, development of comprehensive behavior management plans, teaching of affective education lessons, and other related experiences.

463 Field Experience in Special Education—Early Childhood Special Education (Block IVd-ECSE validation) (3)

Prereq: special education block IVd; coreq with 371. *S. Sparks*. Field based experience designed to provide supervised practical experience in early childhood special education.

473 The Nature and Needs of Persons with Multiple Handicaps (4)

Prereq: special education block II and jr in special education or perm. (winter) *M. Roth*. Course content and activities focus on the issues in the analyses of etiologies, characteristics, and diagnosis of multiple handicaps (including moderate, severe, profound mental retardation; orthopedic and sensory impairments; medical and behavioral disabilities), and the theoretical and therapeutic implications for transdisciplinary coordination of lifespan planning. Medical, communicative, psychosocial aspects; legal, ethical, and advocacy issues are studied in relation to the characteristics and needs of persons with multiple handicaps.

474 Introduction to Specific Learning Disabilities (4)

Prereq: special education block III and 75 hrs or perm. *S. Safran*. Provides comprehensive overview of field of learning disabilities; introduces varied theories, controversies, and practices; discusses disciplines contributing to field, theoretical, and practical concepts of identification and diagnosis, specific learning disabilities, learning disabled adolescent, early identification, educational provisions, and impact on parents and family.

475 Methods and Materials for Teaching Persons with Multiple Handicaps (4)

Prereq: special education block IIb and jr in special education or perm. (spring) *M. Roth*. Course content focuses on the design and implementation of multifactorial/transdisciplinary/ecological assessments, curricular adoption/development, IEP/HIP planning processes, functional/activity-based instructional strategies that are age appropriate and delivered in naturalistic settings, adaptive materials and equipment, evaluation, and methods of structuring and arranging environments from a lifespan/interagency perspective for persons with multiple handicaps.

476 Teaching the Learning Disabled (4)

Prereq: special education block IV. *Staff*. Provides training in strategies for teaching learning disabled students; developing individual diagnostic-prescriptive programs; utilizing specific instructional methodologies and materials; developing individual education programs; organizing instruction in LD classrooms; and evaluating student progress.

477 Communicating with Parents and Professionals in Special Education (4)

Prereq: special education block IV or IIb or perm. *M. Roth, S. Sparks*. Designed to develop understanding of stresses of parenting exceptional child and how to establish professional relationship with parents and other professionals to strengthen services and involvement. Includes overview of communication techniques, professional roles, collaboration/consultation, community resources, and multicultural issues as they relate to services for children with exceptionalities.

478 Education of the Disadvantaged and Handicapped (3)

Prereq: jr in teacher education. *Staff*. Problems and new approaches to education of disadvantaged children handicapped through intellectual, sensory, perceptual, and communication deficits due to environmental factors

481 Management of Medical and Physical Problems in the Classroom (3)

Prereq: special education block IIIb or perm. *L. Jageman*. Understanding medical conditions and terminology pertinent to reading accumulative folder information, communicating with parents and interdisciplinary team members, and in planning and implementing individualized Habilitation Plan. Classroom procedures to use with children having ostomies, shunts, pacemakers, glasses, hearing aids, braces, seizures, medication, etc., emphasized.

485 Diagnosis and Evaluation of the Handicapped (4)

Prereq: special education blocks I, II, III. *Staff*. Designed to have students learn types, purposes, and appropriateness of various testing and evaluation tools and techniques. Moreover, covers analysis, interpretation, and reporting of assessment information.

135 Special Topics in Programming with BASIC (2-5)

Prereq: MATH 101. Introduction to computing using micro-, personal, home, or office computers using BASIC language. Extensive programming exercises assigned exploring capabilities of computers. Course does not apply to Arts and Sciences natural science requirement. May be repeated for a maximum of 5 credits.

199 Computer Usage Laboratory (1-2)

Prereq: concurrent enrollment in interactive programming course. (on demand) Laboratory course for introducing students to interactive computing facilities at Ohio University: VM/CMS, VAX/VMS, UNIX, and microcomputer networks.

490 Study of Special Education (1-5, max 15)

Prereq: perm of area coordinator. Independent analysis of problems, special interests, concerns, with assigned and suggested readings, programmed experiences, and preparation of final report, with guidance of staff member.

Vocational Education (EDVE)**300 Principles and Practices of Vocational Education I (8)**

Prereq: perm. *T. Harvey, staff*. Intensive four-week preservice course designed to prepare newly hired teachers for entry into the school classroom and laboratory. Includes study of the foundations and methodology of teaching vocational subjects in secondary school and professional roles expected of teachers.

320A Observation and Visitation I (2)

Prereq: 300. *C. Fleser, T. Harvey, R. Riley*. Field-based experiences at the vocational school. Frequent on-site visits by teacher educator to guide and evaluate teachers in the application of and participation in simulated exercises, field experiences, and group seminars.

320B Observation and Visitation II (2)

Prereq: 320A. Continuation of 320A; includes additional assignments based on performance in 320A. Group seminars for discussion.

320C Observation and Visitation III (2)

Prereq: 320B. Continuation of 320B with accompanying individualized assignments based on past performance. Group seminar.

340 Principles and Practices of Vocational Education II (4)

Prereq: 320C. *Staff*. Further study of the foundations and methodology of teaching vocational subjects in secondary school and professional roles expected of teachers. Conducted in an intensive two-week period.

360A Observation and Visitation I (1)**B Observation and Visitation II (1)****C Observation and Visitation III (1)**

Prereq: 340. *C. Fleser, T. Harvey, R. Riley*. Must be taken in sequence fall, winter, and spring. Field-based experiences under the direction of teacher educator.

370 Dynamics of Vocational and Technical Curriculum (3)

Prereq: 360C or perm. *T. Harvey*. Guidance in developing and using the course of study and the curriculum guide in the technology education field as well as vocational education. Includes historical foundations of technical curriculum development.

380 Youth Leadership Development (3)

Prereq: 360 or perm. *Staff*. Designed to assist teachers in building school leadership program through co-curricular student youth organizations. A requirement of vocational educators in the State of Ohio.

390 Vocational Education Linkages (3)

Prereq: 360 or perm. *Staff*. Explores interface of vocational education practitioners with business-industry and government to form mutually productive partnerships in technology transfer.

400 History, Laws, and Regulations of Vocational Education (3)

Prereq: 370. *Staff*. The development of the vocational education movement in Europe and the United States. Studies historical influences affecting legislation which supports vocational education. Discusses the impact of current federal and state laws which govern vocational education.

401 Curriculum Construction in Vocational Education (3)

Prereq: 370. *T. Harvey*. Examination of vocational curriculum theory and a study of the planning, development, management, and evaluation of vocational education programs.

402 Coordination of Vocational Programs (3)

Prereq: 401. *T. Harvey*. Responsibilities of the teacher, student, parent, and employer with coordination of early placement of vocational students. Includes the coordination of classroom and related instruction with on-the-job experience and the evaluation of appropriate learning experiences.

410 The Dynamics of Transportation Technology (3)

Prereq: jr voc and tech majors or perm. *T. Harvey*. Interrelationships of energy resources, power technology, and transportation technology will be explored in depth providing the opportunity for students to attain some degree of technological literacy and an appreciation of the role transportation plays in the development of world society.

Electronics Technology (ETCH)

The following courses for the A.A.S. in electronics technology are available only on the Lancaster campus.

110 Basic Electronics (4)

Prereq: MATH 102. Introductory knowledge of electricity and solid state electronics. Basic electrical terms, units, symbols, schematics, and code. Fundamentals of alternating current and direct current electricity. Ohm's Law applied to series and parallel networks. Inductance and capacitance theory. Test equipment used for troubleshooting. Fundamentals of solid state theory and application. Operating characteristics of diodes, transistors, and I.C.s. Concludes with introduction to computers and microprocessors. 2 lec, 4 lab.

111 AC and DC Circuit Analysis (4)

Prereq: 110, MATH 113, or perm. AC and DC electrical circuits. Application of network theorems to circuits containing resistors, capacitors, inductors, and transformers emphasized. 2 lec, 4 lab.

112 Industrial Electronics (4)

Prereq: 111 or perm. Advanced study of solid state devices, their operating characteristics, and circuit analysis. Transistor amplifiers, bias, impedance matching and classes of operation, integrated circuit theory, and application. 2 lec, 4 lab.

120 Digital Electronics (4)

Prereq: 111 or perm. Comprehensive study of pulse and digital circuits used in industry. Wave shaping, switching circuits, trigger circuits, nonsinusoidal oscillators, and sequencing systems. Digital concepts, Boolean algebra, logic circuits, memory circuits, arithmetic unit, and logic application to electronic control circuits. Field trips part of lab activity. 2 lec, 4 lab.

134 Direct Current Circuit Analysis (5)

Prereq: 110. Direct current electrical theory, application, and circuit analysis. 3 lec, 4 lab.

135 Alternating Current Circuit Analysis (5)

Prereq: 134, MATH 115/118, or perm. Alternating current electrical theory, application, and circuit analysis. Sinusoidal wave forms, inductive reactance, resonance circuits, and RC circuits. Power transformers and polyphase systems. Power generation and distribution. 3 lec, 4 lab.

140A-J Power Distribution Systems (1-5, max 5 each segment)

Prereq: 135 or perm. (A) residential electrical wiring, (B) commercial electrical wiring, (C) industrial electrical wiring, (D) National Electrical Code, (E) low-voltage wiring, (F) high-voltage systems, (G) fire alarm systems, (H) electrical safety, (I) electrical blueprints and specifications, (J) new developments in power distribution.

220 Electrical Motors, Control Circuits, and Computers (4)

Prereq: 111 or perm. Industrial power rotating machines and computer control. Motor principles, classification, and application. Motor control circuits, single phase, 3-phase systems, relays, and overload protection. Testing and maintenance procedures. Field trips part of lab activity. 2 lec, 4 lab.

221A Programmable Controllers, Instrumentation & Process Control I (4)

Prereq: 220 or perm. A study of process control including transducers and controller principles. Emphasis on instrumentation, programmable controllers, and analog and digital control of the manufacturing process. 2 lec, 4 lab.

221B Programmable Controllers, Instrumentation & Process Control II (4)

Prereq: 221A or perm. Continuation of 221A. Emphasis on process control. 2 lec, 4 lab.

234 Industrial Electronics and Linear Integrated Circuits (5)

Prereq: 112 or perm. Theory and application of solid state industrial control. Silicon control rectifiers, photoelectric, differential amplifiers, oscillators, and phase shift controls. 3 lec, 4 lab.

236A Microprocessor and Computer Basics (4)

Prereq: 120 or perm. Introduction to computer organization and design, including ROMs, RAMs, microprocessors, instruction sets, hardware, software, and machine and assembly language programming. 2 lec, 4 lab.

236B Microprocessor and Computer Basics (4)

Continuation of 236A. Emphasis is on computer interfacing

236C Robotics (6)

Prereq: 236B or perm. Introduction to fundamentals of robotics. 3 lec, 6 lab.

237 Design and Production of Electronic Circuits (3)

Prereq: 110 and IT 101 or perm. Printed circuit theory, design, application, and fabrication. 2 lec, 2 lab.

240A-M Electronic Communication Systems (3-5)

Prereq: 233 or perm. Introduction to various types of communication systems. Includes microwave, R.F., television, audio, and sound systems.

250 Computer Programming for Electronic Circuit Analysis (3)

Prereq: 112, MATH 115/118, or perm. Introduction to high-level language programming for solution of electronic circuit problems. 2 lec, 2 lab.

260 Data Communications and Computers (4)

Prereq: 236B or perm. A study of computer communications systems, including telecommunications. Topics include modems, amplifiers, local area networks (LANs), communication standards, and protocols. An introduction to the principles of radio, television, telephone, and digital networks will also be studied. 2 lec, 4 lab.

288 Personal Computer Maintenance (4)

Prereq: 236B or perm. Repair and trouble shooting of the personal computer emphasizing the IBM series. Topics will include specifications, documentations, timing diagrams, diagnostic programs, test instruments, logic analyzers, and in-circuit emulation. Other personal computers may be considered. 2 lec, 4 lab.

289 Electronic Trouble Shooting and Repair (4)

Prereq: 112 and 120 or perm. Fundamentals of test equipment applications with emphasis on repair of consumer and industrial analog equipment. 2 lec, 4 lab.

299 Special Problems (1-3, max 9)

Prereq: perm. Individualized projects or internship experiences under supervision of faculty member in electronics technology.

Engineering, Chemical (CHE)**100 Introduction to Chemical Engineering (1)**

(winter) Overview of the profession's history, present status, and future opportunities. Demonstration of departmental research. Goals and details of the curriculum.

101 Approaches to Chemical Engineering Problem Solving (3)

(spring) Introduction to goals and methods of problem-solving techniques; uses of computers for calculations, document preparation. Implementation of selected professional software.

200 Introduction to Chemical Engineering (4)

Prereq: ET 181 and CHEM 101, or perm. (winter, summer) Applications of chemistry, physics, and mathematics to solution of material and energy balances typical of those encountered in process industries. 3 lec, 2 lab.

201 Introduction to Chemical Engineering II (4)

Prereq: 200, C or better. (spring, summer) Continuation of 200. 3 lec, 2 lab.

305 Chemical Engineering Thermodynamics I (5)

Prereq: 201, C or better. (fall) Application of thermodynamics to chemical engineering problems, including problems in chemical equilibrium in homogeneous and heterogeneous systems, mixtures, and pure materials.

306 Chemical Engineering Thermodynamics II (2)

Prereq: 305, ET 181, C or better. (winter) Continuation of 305. See 305 for description.

307 Chemical Engineering Kinetics I (2)

Prereq: 306, or with 306, 342, 400, or with 400. (winter) Application of chemical kinetics and material and energy balances to the design of chemical reaction systems.

308 Chemical Engineering Kinetics II (4)

Prereq: 306, 307, 344, 400. (spring) Continuation of 307. See 307 for description.

331 Principles of Engineering Materials (4) (2A)

Prereq: CHEM 122 or 152. (fall, winter, spring, summer) Fundamental principles underlying behavior of engineering materials. Relationship between structure and properties of ceramic, metallic, and polymeric materials. 4 lec.

342 Unit Operations I (5)

Prereq: 201, C or better, MATH 340, and ET 181, C or better. (fall) Fundamental principles of fluid flow, heat, and mass transfer. 4 lec, 2 lab.

343 Unit Operations II (5)

Prereq: 342, 344. (spring) Stagewise processes including distillation and extractions. 4 lec, 2 lab.

344 Unit Operations III (4)

Prereq: 342. (winter) Continuation of 342. See 342 for description. 3 lec, 2 lab.

400 Applied Chemical Engineering Calculations (5)

Prereq: ET 181, C or better. MATH 340. (fall) Solution of ordinary differential equations of chemical engineering, numerical methods. Laplace transforms, computer synthesis and analysis, unsteady heat transfer, partial differential systems.

408 Engineering Experimental Design (3)

Prereq: 308, 343, 400, or perm. (spring) Application of engineering analysis and statistics to the design of experiments with particular emphasis on continuous processes as typically encountered in the chemical and materials areas.

415 Chemical Engineering Lab III (3)

Prereq: 343, 344, sr. (fall) Lab practice to illustrate principles of selected unit operations, thermodynamics, and applied kinetics; and to aid student in gaining confidence in handling of chemical engineering equipment. Development of ability to devise and conduct chemical engineering experiments with minimum supervision and to report results satisfactorily stressed.

416 Chemical Engineering Lab IV (3)

Prereq: 343, 344, sr. (spring) Continuation of 415. See 415 for description.

417 Chemical Engineering Lab V (2)

Prereq: 442 or with 442. (winter) Laboratory for 442. 3 lab.

418 Chemical Engineering Lab VI—Materials (2)

Prereq: 331. (fall, winter, spring, summer) Demonstrations and experiments supporting relationships which exist between structure and properties of ceramic, metallic, and polymeric materials. 4 lab.

420 Coal Conversion Technologies (5)

Prereq: 308, 343, 400, or perm. Coal characterization. Introduction to fixed bed, fluid bed, and entrained bed operations. Equilibrium and kinetic predictions. Coal gasification and liquefaction processes.

430 Metallic Corrosion (4)

Prereq: sr, 331, or perm. (spring) Basic principles of corrosion including electrochemical foundation, influence of environment, stress, strain, and structure. Selected lab experiments. 4 lec.

440 Process Modeling and Control (3)

Prereq: 442 or perm. Digital computer control in chemical engineering. State space concepts and their application in process control.

442 Process Control and Simulation (4)

Prereq: 343, 344, sr. (fall) Simulation and control of chemical processes. Feedback control using root loci and Bode diagrams covered. 4 lec.

443 Chemical Engineering Design (5)

Prereq: 343 and 344, or perm. (fall) Preliminary process design of chemical plant and its economic evaluation plus additional detail design problems. Involves trip, which usually lasts 3 days, to various chemical plants. Student responsible for own expenses on this trip. 3 lec, 2 rec.

444 Chemical Engineering Design (4)

Prereq: 443. (winter) Continuation of 443. See 443 for description.

448 Safety in the Process Industry (3)

Prereq: 343. Hazard and operability analysis of chemical processes and the subsequent safe operation criteria.

450 Fundamental Materials Analysis (3)

Prereq: sr, 331, or perm. An overview of both classical and modern techniques of materials analysis. Topics covered include classical optical spectroscopies (IR, FTIR, Raman, UV/VIS), and modern surface techniques, such as AES, XPS/ESCA, and RBS.

452 Introduction to Transport Phenomena (3)

Prereq: 343, 400. Integration of fluid flow, heat transfer, and mass transfer into a coherent topic. Origin of general equations and methods of application to specific engineering problems. Introduction to contemporary engineering science.

460 Atmospheric Pollution Control (3)

Prereq: sr, 307 or ME 321, or perm. Sources of air pollution from major industries, internal combustion engines, and other sources. Techniques available for measuring particulate and gaseous pollutants in atmosphere and at their sources. Techniques available for control and future possibilities for control of air pollution. Bases for air pollution legislation. 3 lec.

461 Environmental Assessments (3)

Prereq: 308, 343, 400 or perm. (spring) Determining whether emissions to air, land, or water are likely to be dangerous to people or environment. 3 lec.

477 Introduction to Polymer Synthesis (3)

Prereq: sr, 454. To develop thorough understanding of mechanisms, kinetics, and systems used for synthesis of polymeric materials. Effect of synthesis variations upon properties and reactor design also discussed.

481 Biochemical Engineering (3)

Prereq: 308, 343, 400, or perm. Study of processes in chemical engineering that depend on biological systems. Includes fermentation technology; pharmacokinetics; enzyme kinetics and technology; macro processes such as aquaculture, biomass conversion, and wastewater treatment and biomaterials.

482 Topics in Bioprocesses (3)

Prereq: CHE, CHEM, Life Sci sr, or perm. Basic techniques, such as cell disruption, centrifugation, precipitation, micro- and ultrafiltration, various forms of chromatography for the separations of biomolecules, esp. proteins, will be introduced. Some emphasis will be placed on preparative and large scale applications.

490 Special Investigations (1-3, max 9)

Prereq: perm. Individual or small-group work, under staff guidance, in research or advanced study in particular field of chemical engineering.

Engineering, Civil (CE)

210 Plane Surveying (4)

Prereq: MATH 163 or MATH 263, or perm. (fall, spring) Basic theory and field practice in measurement of distance, elevation, and angle; introduction to photogrammetry. 3 lec, 3 lab.

220 Statics (4)

Prereq: MATH 263D or with MATH 263D. Laws of equilibrium of forces, friction, centroids, and moment of inertia. 4 lec.

222 Strength of Materials (4)

Prereq: grade of C or better in 220. Simple stresses and strains, bending, torsion, beam deflection, columns, and combined stresses. 4 lec.

223 Strength of Materials Laboratory (1)

Prereq: 222 or with 222. Testing of various materials under axial compression, tension, flexure, torsion, impact, fatigue. Use of electrical, mechanical, and photoelastic strain measuring equipment. 2 lab.

301 Applied Mechanics (5)

Prereq: MATH 263D, PHYS 251. Not open to students who have completed 220 or 222. Calculus-based terminal course in applied mechanics for students outside the civil or mechanical engineering programs. Concurrent and non-concurrent force systems at rest. Internal response of deformable bodies to external loads. 5 lec.

311 Route Engineering (4)

Prereq: 210. (winter) Horizontal and vertical curves; geometric design of highways; earthwork distribution; introduction to engineering economy. 4 lec.

330 Structural Theory I (5)

Prereq: C or better in 222, ET 181. (fall) Determinacy requirements; analysis of statically determinate structures; influence lines; deflections; introduction to analysis of statically indeterminate structures. 5 lec.

331 Structural Theory II (3)

Prereq: C or better in 330. (winter) Indeterminacy conditions for structures; slope deflection method; moment distribution method; influence lines; introduction to computer methods. 3 lec.

340 Fluid Mechanics (5)

Prereq: C or better in ME 224. Statics and dynamics of viscous and nonviscous fluids, dimensional analysis and similitude, 1-dimensional gas dynamics, pipe flow, principles of lift and drag, introduction to boundary layers. 5 lec.

341 Fluid Mechanics Laboratory (1)

Prereq: 340 or with 340. Lab techniques, calibration principles, fluid and flow measurements. 2 lab.

342 Applied Hydraulics (3)

Prereq: 340. (spring) Flow and pressure distribution in municipal networks, dynamics of flow in pumps and turbines, uniform and nonuniform flow in open channels, culvert hydraulics, hydraulic transients. 3 lec.

343 Hydrology (3)

Prereq: 340, ISE 304 or with ISE 304. (spring) Hydrologic cycle. Precipitation and runoff data, groundwater hydraulics, infiltration, peak runoff calculations. Application to water resource problems. 3 lec.

361 Transportation Engineering (3)

Prereq: 311. (spring) Comparative analysis of various modes of transportation, with emphasis on inherent advantages and disadvantages of each; planning process applied to transportation facilities. 3 lec.

370 Soil Engineering (4)

Prereq: 340 or concurrent with 340, 222, GEOL 283. (winter) Soil compositions, physical and chemical properties, and classifications; water movement and seepage problems; consolidation and shear strength; applications to earth structures, retaining walls, slope stability, bearing capacity, and settlement. May be taken as 570 for grad credit except by civil engineers. 3 lec, 2 lab.

371 Soil Engineering Laboratory (1)

Prereq: 370 or concurrent with 370. Classification of soils and determination of their properties through tests; grain size analysis, Atterberg limits, relative density, Proctor testing, permeability, direct shear and consolidation. 3 lab.

410 Applied Property Surveying (3)

Prereq: 210. (spring) Triangulation; astronomical observations; land surveying; instrument adjustments; special topics. 2 lec, 3 lab.

415 Photogrammetry (3)

Prereq: 210 or perm. (winter) Equipment and methods used in aerial photography and land measurement. 2 lec, 2 lab.

423 Continuum Mechanics (4)

Prereq: perm. (spring) Matrix methods in mechanics and structures; laws of dynamics; mechanical properties of solids and fluids; basic theories of continuum mechanics. Grad course open to selected undergrads. 4 lec.

424 Strength of Materials II (3)

Prereq: C or better in 222. (fall) Unsymmetrical bending, shear centers, columns, energy, and continuation of basic topics usually taught in Strength of Materials I. 3 lec.

427 Experimental Stress Analysis (3)

Prereq: 424. (spring) Experimental methods of stress determination including photoelasticity, stress coat, and electric strain gauge techniques; stress analogies; strain rosettes for combined stress determinations. Grad course open to selected undergrads. 2 lec.

431 Experimental Methods in Structural Dynamics (3)

Prereq: perm. Modal analysis of structural models to identify their vibration characteristics. Frequency response functions using dual-channel signal analyzers. Mobility measurement techniques. Modal parameter extraction techniques. Computer-aided structural dynamics. Grad course open to selected undergrads. 2 lec, 3 lab.

432 Structural Design in Concrete (4)

Prereq: C or better in 330. (winter) Materials and properties; design methods, strength of rectangular sections subject to bending moments, axial loads, and shear forces either separately or in combination; continuity in concrete construction; design of 1-way slabs; design of T-sections in bending; deflection calculations; footing design. 4 lec.

433 Structural Design in Steel (4)

Prereq: C or better in 330. (spring) Materials and properties; design methods, design of tension members; structural fasteners; welding; design of compression members, beams, connections, trusses, frames, plastic design of beams and frames. 4 lec.

434 Advanced Structural Design (3)

Prereq: 432 or 433, or perm. (spring) Design of complete structures or major components of structures. 3 lec.

438 Structural Dynamics (3)

Prereq: 330, ME 491, and perm. Dynamic analysis of structures with multi-degree of freedom. Free and forced vibration analysis of elastic beams, frames, grids, and trusses. Earthquake and wind-induced vibration of high-rise buildings and bridges. Classical and computer methods. Grad course open to selected undergrads. 3 lec.

445 Flow Routing (3)

Prereq: 342 or perm. (fall) Chang. Gradually varied flow computation, the use of computer software programs for flow routing, and their engineering applications.

450 Water Treatment (3)

Prereq: 342, 343, CHEM 123. (fall) Sources and collection of public water supplies; principles of treatment processes. 3 lec.

451 Wastewater Treatment (3)

Prereq: 342, 343, CHEM 123. (winter) Quantities and collection of municipal wastewater; principles of treatment processes. 3 lec.

452 Water and Wastewater Analysis (3)

Prereq: CHEM 123. (fall) Lab methods and interpretation of results for chemical and bacteriological examination of water and wastewater. 2 lec, 3 lab.

457 Water Resources Engineering (3)

Prereq: 343 or perm. (winter) Elective sr civil engineering course designed to provide integrated treatment of water resources engineering, including hydrological measurements, runoff, groundwater, water law, reservoir design, frequency analysis, planning, flood control. Systems approach to multipurpose water resource projects emphasized. 3 lec.

458 Water Quality Engineering (3)

Prereq: perm. (spring) Natural and man-made characteristics of water quality, changes in quality resulting from use, criteria for control of stream pollution, methods of improving water quality, also legal, economic, and institutional aspects. Grad course open to selected undergrads. 3 lec.

462 Traffic Engineering (3)

Prereq: 361, nonmajors by perm. (winter) Vehicle and driver characteristics, uses of traffic control devices, intersection design and capacity, parking characteristics. 3 lec.

471 Foundation Engineering (3)

Prereq: 370. (spring) Design and construction problems in soil engineering; subsurface investigation; foundation selection and design criteria; principles of design of shallow and deep foundations; site improvement. 3 lec.

474 Soil Mechanics Laboratory (1)

Prereq: perm. (spring) Advanced techniques for measurement of soil engineering properties. Grad course open to selected undergrads. 3 lab.

481 Pavement Design (3)

Prereq: perm. (spring) Types and uses of various paving materials and mixtures; theory and practice in design, construction, and maintenance of various types of highway and airport pavements. 2 lec, 2 lab.

482 Paving Materials and Mixtures (3)

Prereq: perm. (winter) types, constituents, chemical behavior, tests, specifications, and uses of bituminous materials, Portland cements, and aggregates in pavements. Design and manufacture of paving mixtures and construction of pavements. Grad course open to selected undergrads. 2 lec, 3 lab.

490 Special Investigations (1-5)

Prereq: perm. Special investigation or problems not covered by formal courses. Permits well-qualified student to pursue individual study under direction of faculty member.

491A Senior Design—Land Use (4)

Prereq: 343, 361, or perm. An advanced applied engineering course utilizing multiple fundamental civil engineering courses as applied to land utilization.

491B Senior Design—Environmental/Water Resources (4)

Prereq: 450, with 451, or perm. An advanced applied engineering course utilizing combinations of water/wastewater treatment and hydraulics/hydrology courses as applied to societies' needs.

491C Senior Design—Structures and Foundations (4)

Prereq: 370 and 432 or 433, or perm. A civil engineering design elective integrating fundamental civil engineering courses for foundation and structural design, analysis, and drawing.

491D Senior Design—Special Project (4)

Prereq: sr and perm. An advanced applied engineering course integrating several major disciplines of civil engineering in a design project.

Engineering, Electrical and Computer (EE)

Note: In the following course descriptions an asterisk (*) denotes that a minimum grade of C is required in prerequisite course.

200 Introduction to Personal Computer Software for Electrical Engineers (0)

Prereq: 210 and ET 181. Introduction to personal computer applications in electrical engineering. Tutorial on software packages that will be utilized in engineering coursework. Personal computer operating system fundamentals. FORTRAN, circuit analysis software, word processing, spreadsheets, and data base applications will be investigated.

210 Circuit Analysis I (4)

Prereq: MATH 263B*. (fall, winter) Basic concepts and definitions, units, DC circuit analysis, Kirchhoff's laws, source transformations, mesh and nodal analysis, network theorems, magnetic circuits.

211 Circuit Analysis II (4)

Prereq: 210* and MATH 263C. (winter, spring) Continuation of 210. Inductance and capacitance, initial conditions, periodic functions, average and RMS, complex numbers, phasors, sinusoidal steady state circuit analysis, plus polyphase circuits.

212 Circuit Analysis III (4)

Prereq: 211* and MATH 340. (fall, spring) Continuation of 211. AC network theorems, coupled circuits, frequency response, transient circuit analysis, two port networks, complex frequency, and transformers.

221 Instrumentation Laboratory (2)

Prereq: 210 and/or with 211. (winter, spring) Theory and applications of lab instruments. Lab experimentation involving electrical and magnetic phenomena.

222 Introduction to Digital Circuits (3)

Prereq: 210*, ET 181. (spring, fall) Fundamentals of Boolean algebra; binary arithmetic; characteristics and applications of logic gates and flip-flops.

232 Analytical Foundations of Electrical Engineering (5)

Prereq: 211*, MATH 340, ET 181. (spring, fall) Vector analysis, line and surface integrals, with applications to electromagnetic fields. Matrix theory with applications to state variable formulation of linear and non-linear systems. Complex variable theory, complex integral and series, residue theorems with applications to systems. Special analytical techniques for solution of complex electrical engineering problems with emphasis on computer-oriented techniques.

301 Intermediate Laboratory I (1)

Prereq: 221 and/or with 340. Intermediate-level lab in practical electronics designed to provide exposure to devices and circuits discussed in corequisite lecture course.

302 Intermediate Laboratory II (1)

Prereq: 301 and/or with 341. Continuation of 301.

303 Intermediate Laboratory III (1)

Prereq: 367. Experiments in microprocessors and electronics.

304 Basic Electrical Laboratory I (1)

Prereq: 313 or with 313. Lab supplement to 313. Basic instruments and circuit measurements.

305 Basic Electrical Laboratory II (1)

Prereq: 304 and/or with 314. Lab supplement to 314. Operation of semiconductor devices, amplifier design, oscillators and digital circuits design.

310 Linear Systems and Networks I (4)

Prereq: 212* (fall, winter) Classifications of systems and signals, basis functions, singularity functions, convolution integral, Fourier series and transforms, Laplace transformation with associated theorems. Students assigned to use digital computer for solving Fourier series problem and therefore they should have some knowledge of FORTRAN programming.

312 Linear Systems and Networks II (4)

Prereq: 310. (winter, spring) review of Laplace transforms; sampling continuous time signals; frequency response; discrete-time signals and systems; Z-transforms; solving state variable equations.

313 Basic Electrical Engineering I (3)

Prereq: MATH 263B, PHYS 252. DC, steady-state single phase AC, 2-port network analysis, frequency and transient response. Not open for credit to electrical engineering majors. 3 lec.

314 Basic Electrical Engineering II (3)

Prereq: 313. Semiconductor devices, small signal analysis, amplifiers and oscillator circuits, pulse and digital circuits. 3 lec.

315 Basic Electrical Engineering III (3)

Prereq: 313. Transformers, direct current machines, polyphase induction and synchronous, rotating machines, including equivalent circuits and steady state performance prediction.

321 Electromagnetics and Materials I (5)

Prereq: 212*, 232*. (fall, winter) Introductory treatment of static electric and magnetic fields in free space and stationary matter and physical properties of fields, charges, and currents. Included are: electromagnetic field vectors and field equations, boundary conditions, Poisson's equation, solutions of Laplace's equation for scalar electric and magnetic potentials, vector potential, polarization and magnetization charges and currents, and unified macroscopic treatment of fields in matter. Electromagnetic energy.

322 Electromagnetics and Materials II (5)

Prereq: 321. (winter, spring) Continuation of 321. Discussion of time-varying, electromagnetic fields. Application of field theory to solution of problems from various branches of electrical engineering with emphasis upon physical interpretation. Included are: relation of field theory to circuit theory, Poynting's theorem, stored energy and power flow, complex fields and power, TEM waves, uniform plane wave, wave reflection and refraction. Theory and applications of transmission lines.

335 Energy Conversion (5)

Prereq: 321. (spring, fall) Basic principles of electromechanical energy conversion. Circuit models and parameter tests for single-phase and 3-phase transformers. Fundamentals of DC machinery; circuit models and characteristics of DC motors. Fundamentals of AC machinery; theory and operation of synchronous machines and induction motors.

340 Electronics I (5)

Prereq: 212*, 222, PHYS 252. (fall, winter) Introduction to semiconductor properties, devices, and applications. Formation of n- and p-type materials, junctions. Properties of diodes and bipolar transistors. Application of semiconductor devices to digital circuits. Introduction to combinational and sequential logic.

341 Electronics II (4)

Prereq: 232*, 340. (winter, spring) Continuation of 340. Application of semiconductor devices to analog circuitry. Small-signal parameters, low-frequency amplifier design, feedback amplifiers, frequency response. Large-signal amplifiers and power supplies.

367 Introduction to Microprocessors (4)

Prereq: 340 and ET 240. (winter, spring) Basic system organization of microcomputers including I/O interfacing. Assembly language programming of 8-bit microprocessors from elementary operations through subroutines and interrupt processing. Emphasis upon programming for I/O applications involving interaction, monitoring, and control.

371 Applied Probability and Statistics for Electrical Engineers (3)

Prereq: 312. (fall, spring) An introduction to fundamental concepts from probability and statistics, emphasizing problem solving skills and electrical engineering applications.

401 Advanced Laboratory I (1)

Prereq: 302 or perm. (fall, winter, spring) Advanced lab format follows that of intermediate lab. Student-proposed projects are design- or research-oriented and directed by faculty member specializing in area of investigation. Portion of this lab required in conjunction with certain electrical engineering 400-level lecture courses.

402 Advanced Laboratory II (1)

Prereq: 302 or perm. (fall, winter, spring) See 401 for description.

403 Library Research (1)

Prereq: perm. (fall, winter, spring) Library research under the supervision of a faculty member. Prior approval required. See departmental office for regulations.

405 Physical Electronics (3)

Prereq: 340. Simplified 1-dimensional band theory of solids. Valence and conduction band occupancy from Fermi-Dirac statistics. Hole conduction and doping. Derivation of PN junction volt-amp-temperature characteristic. DC and AC characteristics of junction transistors derived from fundamentals.

406 Advanced Analog Circuits (3)

Prereq: 312, 341, 301, and 302. Advanced analog circuitry. Operational amplifiers, characteristics, limitations. Linear and nonlinear applications. Feedback, stability criteria, compensation, time, and frequency response. Waveform generation and shaping, timing, comparison, and arithmetic operations.

407 Advanced Digital Circuits (3)

Prereq: 312, 341, 301, and 302. Advanced digital circuitry. Basic logic operations, digital device families, and characteristics. Arithmetic, counting, memory, other MSI and LSI functions. Numeric display devices. Analog/digital conversion.

410 Semiconductor Principles I (3)

Prereq: 405 or equiv. Continuation of 405. Application of semiconductor theory to solid state devices: diodes, transistors, FETs and Gunn effect devices. Charge control analysis; Ebers-Moll equations; electro-optical effects.

411 Analog Filters I (3)

Prereq: 312 and 232. (fall) Principles of filter synthesis, positive-real functions, synthesis of 1-port networks, synthesis of 2-port networks, approximation, frequency transformations, and filter design.

412 Analog Filters II (3)

Prereq: 411, or perm. (winter) Principles of active filter synthesis, active filter elements, realization of active 2-port networks, multiple feedback filters, explicit formulas and practical filter design. Sensitivity and non-ideal filter elements. Switched capacitor filters.

413 Digital Filter Design (3)

Prereq: 412, or perm. (spring) Principles of digital filter design, Z-transform, discrete Fourier transform, representations of digital filters, digital filter hardware implementations, and computer-aided design of digital filters.

415 VLSI Design (3)

Prereq: 312, 341. Introduction to very large scale integration (VLSI) technology and design of CMOS integrated circuits. VLSI fabrication process, design rules, logic design, performance estimation, chip engineering, and computer aids to VLSI design. Students may get 2 hours of senior lab credit for the VLSI lab work. 3 lec, 2 lab.

425 Control Theory I (3)

Prereq: 312. (fall) Formulation of models for lumped parameter systems, fundamental principles of closed loop control, signal flow graphs, stability, Routh-Hurwitz criterion, root locus construction, specifications, and design via root locus.

426 Control Theory II (3)

Prereq: 425. (winter) Simulation, Bode plots, frequency response performance specifications and relationship to time domain specifications, Nyquist criterion, relative stability measures, closed loop frequency response, analytical design of lead, lag, lag-lead, and PID compensators.

427 Control Theory III (3)

Prereq: 426. (spring) Sampling and data reconstruction, discrete-time systems, z-transforms, sampled data systems, frequency response, Nyquist criterion, root locus, bilinear transformation, analytical design of lead, lag, lag-lead, and PID compensators.

428 State Variable Methods in Control (3)

Prereq: 425. Basic state variable concepts, writing state equations, time-domain solution of the state equation and the matrix exponential, relations to transfer functions, controllability and observability, stability, state variable methods of design including state feedback and state estimation.

431 Introduction to Lasers I (3)

Prereq: 322. Introduction to important modern optical devices and lasers and their applications. Emphasizes basic physical theory needed to understand lasers, their construction, and their applications. Detailed discussion of various types of lasers and their characterization.

432 Introduction to Lasers II (3)

Prereq: 431. Continuation of 431. Additional theoretical material discussed beginning with Maxwell's equations. Examines electromagnetic issues that play major role in laser oscillations—amplification and feedback. Characterization of lasers and continuing discussion of laser types and their applications.

433 Optoelectronic Materials and Devices (3)

Prereq: 405. Introduction to modern optical materials and devices utilizing semiconductor technology; optical integration of these devices and their application in diverse fields. Fundamentals of devices and materials emphasized.

440 Microwave Theory and Devices (3)

Prereq: 322. Wave propagation, transmission lines, Smith chart, impedance matching, waveguides, and survey of devices (microwave generators, semiconductor devices, etc.)

441 Antennas (3)

Prereq: 322. Fundamental concepts and definitions, radiation integrals and potential functions, linear wire antennas, loops, arrays, and personal computer applications.

443 Electromagnetics I (3)

Prereq: 322. (fall) Mathematical review of vector operations in Cartesian and curvilinear coordinates. Solution of wave equation in Cartesian coordinates and application to wave reflection from interfaces between general media. Decomposition of wave solutions into TE, TM, and TEM waves, with application to waveguides and transmission lines; solution of wave equation in cylindrical coordinates, with application to circular waveguide, radiation from line sources, and scattering from cylindrical objects.

454 Power Electronics (3)

Prereq: 335, and 341. Introduces seniors to power electronics. Covers most uses of semiconductor devices for the conversion and control of electric power. AC to DC, AC to AC, DC to DC, DC to AC conversions, and DC and AC motor drives. Semiconductor device characteristics (particularly those characteristics not stressed in 340 and 341) and device protection conclude the offering.

455 Introduction to Electric Power System Engineering and Analysis I (3)

Prereq: 335. Includes power system representation, computer methods, symmetrical components, protection methods, and stability.

456 Introduction to Electric Power System Engineering and Analysis II (3)

Prereq: 455. Continuation of 455. See 455 for description.

457 Introduction to Electric Power System Engineering and Analysis III (3)

Prereq: 456. Continuation of 455, 456. See 455 for description.

461 Digital Systems I (3)

Prereq: 341. (fall) Postulates and fundamental theorems of Boolean algebra, algebraic and map methods for design of combinational logic and simple sequential circuits, logic minimization methods, introduction to system design using shift registers, counters, etc.

462 Digital Systems II (3)

Prereq: 461. (winter) Basic concepts from theory of finite-state machines, analysis and synthesis of sequential circuits, study of state assignment, synchronous and asynchronous machines, and system design using integrated circuits.

463 Digital Systems III (3)

Prereq: 462. (spring) Synthesis of sequential circuits using PLDs and PALs for control logic. Introduction to computer organization and design including selection of instruction set, register and bus organization and implementation of control logic with microprogrammed control.

464 Engineering Applications of Expert Systems (3)

Coreq with 495 or perm. Knowledge representation. The process of knowledge engineering. Areas in engineering for expert systems applications. Implementing engineering projects that involve a decision-making process by using VP-Expert, a PC-based expert systems tool (cross-listed with CS 567).

467 Advanced Microprocessors (3)

Prereq: 367. Organization of 16- and 32-bit microprocessors. Particular attention given to a specific microprocessor family (such as the Motorola 680XY) regarding instruction set, assembly language programming, arithmetic operations, I/O, etc.

470 Communication Engineering (3)

Prereq: 232, 312, and 341. (fall) Unified approach to communications stressing principles common to all transmission systems. Review of Fourier series. Fourier integral and complex frequency techniques with emphasis on communication networks, time response and convolution, measurement of information, amplitude modulation (double and single side-band techniques), frequency modulation, sampling theory, pulse modulation and digital communications systems, fundamentals of random signal theory and its application to communication systems, noise and its effect on conventional modulation systems; noise figure, noise suppression techniques, and other related topics.

471 Statistical Analysis (3)

Prereq: 470. (winter) Analysis of engineering problems using probabilistic and statistical concepts: probability, discrete and continuous random variables, distribution functions, means, moments, characteristic functions, statistical independence, stochastic processes, correlation, estimation, and applications to engineering problems.

472 Random Signals in Linear Systems (3)

Prereq: 471 or perm. (spring) Introduction to random electrical signals and noise. autocorrelation, crosscorrelation, power spectra, Nth law detectors, matched filters, detection of signals in noise, optimum receivers, and Bayes estimators.

475 Digital Communication Systems (3)

Prereq: 471. (spring) The design analysis of digital communication systems: signal modeling using random processes, sampling and reconstruction of signals, and quantization (uniform and nonuniform). Channel noise is considered in the overall system design. Systems considered include OOK, BPSK, FSK, DPSK, QPSK, MSK, and differential systems. Trade-off studies are performed in the design of the systems.

478 Digital Processing of Signals (3)

Prereq: 312 and 471. (on demand) Digital techniques for various signal-processing applications. Emphasis on design and realization of digital algorithms for performing specific filtering function. Topics include sampled-data signals, discrete-time system analysis, frequency response and realization of discrete-time systems, infinite impulse response digital filter design, finite impulse digital filter design, and discrete and fast Fourier transforms.

479 PCM Telemetry Systems (3)

Prereq: 471 or perm. (on demand) In-depth study of pulse code modulation systems using total system error (sampling error, quantization error, and channel error). Uniform and nonuniform quantization, companding μ - and A-law, optimum quantization, coding, DPCM (differential pulse code modulations), LDM (linear delta modulation), and ADM (adaptive delta modulation). Comparison of systems and trade-off analysis.

481 Professional Experience in Electrical Engineering (1)

Prereq: sr and perm. Supervised work-study program in an electrical engineering profession, in established industrial environment. Credit dependent on advance registration and mutual agreement between faculty supervisor and participating company. May be repeated; however, hrs applied for graduation limited by dept.

485 Electronic Navigation Systems I (3)

Prereq: 312 and 322. (fall) Principles and theory of operation of electronic navigation systems with emphasis on avionics, aircraft instrumentation, VOR, DME, Inertial, Omega, LORAN, ILS, MLS, Transit, GPS, air traffic control, and radar.

486 Electronic Navigation Systems II (3)

Prereq: 485. (winter) Continuation of 485 focused on current and future avionics systems and aircraft electronics. Design and signal processing in navigation receivers.

487 Electronic Navigation Systems III (3)

Prereq: 486. (spring) Continuation of 485 and 486 with emphasis on mathematical modeling of navigation and landing systems, fault tolerant avionics system design and architectures, and flight testing and current developments.

490 Selected Topics (1-3)

Prereq: perm. Selected topics of current interest in electrical engineering.

495 Electrical Engineering Design (3)

Prereq: 312, 322, jr comp, INCO 103. Students work individually or in small groups on open-ended design problems with "real-world" constraints of economics, limited resources, and deadlines. Design problems may be of a software, device, or system nature; some may take the form of design competitions. Oral and written progress reports are required. Students have a major role in evaluating peer projects as to their feasibility, safety, reliability, aesthetics, and social impact.

Engineering, Industrial and Systems (ISE)

231 Introduction to Industrial and Systems Engineering (2)

Prereq: MATH 263A. (fall) Overview of history and functions of industrial and systems engineering. Topics discussed include historical perspective, production engineering, plant location, plant layout, work measurement and design, job evaluation, production control, quality control, engineering economy, linear programming, and project management. 2 lec.

248 Human Factors in Aviation (4)

Application of human factors principles to the flight environment. Factors which affect pilot performance including aptitudes, perceptual limitations, fatigue, physical fitness, pilot error in terms of its measurement, classification, and control. Human dynamics of the cockpit will be discussed, including flight crew communication, leadership motivation, and use of automated speech recognition/synthesis. Design of the cockpit from a human factors point of view including displays and controls. Pilot training will be considered, with an emphasis on methods and techniques for developing design criteria for flight simulators.

304 Applied Engineering Statistics (3)

Prereq: MATH 163B or MATH 263B or perm. (winter, spring) Introduction to efficient methods for data collection and analysis. Application of basic statistical tests, techniques, and experimental design concepts to engineering and science data problem areas. Not for ISE undergrad majors. 3 lec.

305 Engineering Statistics I (3)

Prereq: perm or MATH 263D or with MATH 263D. (fall, winter) Introduction to probability, concept of random variables, discrete and continuous probability distributions, and expectation.

306 Engineering Statistics II (3)

Prereq: 305 or perm. (winter, spring) Functions of random variables, sampling distributions, estimation theory, hypotheses testing, and statistical prediction.

307 Engineering Statistics III (3)

Prereq: 304 or 306 or equiv, or perm. (fall, spring) Design and analysis of engineering experiments approached from linear statistical model point of view. Blocking designs, full and fractional factorial designs, analysis of variance, and introduction to response surface methodology. 3 lec.

330 Engineering Economy (3)

Comparing alternatives for acquisition of capital assets, expenditure of operating monies, and income generation. Topics include equivalence, annual cost method, present worth method, rate of return method, depreciation, benefit/cost, breakeven analysis, income taxes, equipment replacement, and risk. 3 lec.

333 Work Design (5)

Prereq: 304 or 305 or perm. (fall) Design of work systems and measurement of work. Topics include job methods, operation analysis, charting techniques and schematic models, stop-watch time study, work sampling, predetermined time systems, standard data, incentive wage systems, and learning curves. 3 lec, 2 lab.

336 Project Management (3)

(fall, summer) Development and utilization of network techniques, such as PERT and CPM, to schedule activities, develop financial budgets, allocate resources, and control progress and costs of practical projects. Students introduced to use of available computer programs that generate project schedules. 3 lec.

381 Internship in Industrial and Systems Engineering (1-3)

Prereq: jr and perm. Supervised work-study program, in industrial and systems engineering profession, in established industrial or government environment. Credit dependent upon advance registration and mutual agreement between faculty supervisor and participating company. Course may be repeated; however, hours applied for graduation limited by dept.

402 Manufacturing Systems (4)

Prereq: sr in ENT/perm. (fall) Applications of industrial and systems engineering techniques, principles, practices, and methodologies as they relate to the operation, analysis, management, planning, and design of manufacturing systems.

403 Materials Handling Systems Engineering (4)

Prereq: ISE 333 or perm. (fall) Provides the student with a broad understanding of materials handling engineering from a system design and application engineering point of view. Lecture course will instruct the student in the engineering principles, design criteria, operating parameters, performance requirements, equipment resources, and applications of engineering practices involved in the planning, design, and operation of materials handling systems for manufacturing, physical distribution, and government operations. A materials handling system design project is a required part of the course.

409 Cost Engineering (4)

Prereq: 333, ISE 330, ACCT 201, or perm. Designed to instruct the student in product cost estimating, product value engineering, and manufacturing performance evaluation in state-of-the-art manufacturing systems. The course examines the application of industrial engineering techniques, work measurement, cost accounting, and computers to manufacturing cost measurement and process design.

415 Introduction to Systems Engineering (3)

Prereq: 305, MATH 340, ET 181. (winter) Introduction to systems engineering concepts. Systems structure, open-loop and closed-loop systems, positive and negative feedback. Applications to production and inventory systems, population, and physical systems. Design project required. 3 lec.

417 Analytical Foundations of Industrial and Systems Engineering (3)

Prereq: 305, or perm. (fall) Special analytical techniques introduced for solution of complex industrial and systems engineering problems. Calculus of finite differences, Fourier analysis, and use of transform techniques in linear system analysis discussed. Probability implications of transforms emphasized.

422 Seminar on Occupational Safety and Health (3)

Prereq: perm. (spring) Historical development of worker's compensation and industrial health and safety; review of federal activities in occupational health and safety with focus on contemporary public policy and risk/benefit issues. Specific occupational health and safety issues dealt with in seminar format.

426 Microprocessor Applications (4)

Prereq: ET 240 or equiv. (fall, spring) Comparison and contrast of micro-, mini-, and mainframe computers; comparison of RISC and CISC microprocessors; numbering and arithmetic systems; microprocessor and microcomputer hardware organizations; assembly, procedural and object-oriented high-level languages; interfacing and network concepts; industrial data acquisition, process control and computer-integrated manufacturing concepts; graphics and industrial engineering applications; data base management for office and business applications.

427 Manufacturing Data Systems I (3)

Prereq: 'C' programming or perm. (fall) Overview of manufacturing tools, techniques, and applications. Data base architecture, internal storage methods. Structured query language (SQL). Normalization. Manufacturing entities and relations.

428 Digital Computer Systems II (3)

Prereq: COBOL or FORTRAN or perm. (winter) Continuation of 427. See 427 for description.

432 Inventory and Manufacturing Control I (3)

Prereq: 305. (spring) Design of inventory and manufacturing control systems. Forecasting, continuous and period review inventory systems. Relationship between production schedules and inventory. Production scheduling systems, sequencing models, dispatching rules. 3 lec.

433 Industrial Computer Applications (5)

Prereq: 307, ET 240, MATH 340. (winter) Simulation of industrial problems utilizing digital computers. Stresses user-oriented programs. Applications include use of library routines and simulation languages such as SIMAN and GPSS. Projects involving design of simulation programs required.

434 Network Analysis (3)

Prereq: 305. (fall) Engineering project planning using such techniques as PERT and critical path method, flow graphs, GERT, and other network models. 3 lec.

435 Quality Control and Reliability (3)

Prereq: 304 or 306 or perm. (fall, winter) Application of statistics to control of quality and reliability in products and services. Design of acceptance sampling and process control systems, including attention to inspection and test methods. Design and implementation of quality assurance programs, including nonstatistical dimension of quality systems. 3 lec.

437 Modeling and Analysis of Computer Systems (5)

Prereq: 306 Computer systems are characterized by hardware, software, and operating environment so such systems can be evaluated. Models of portion or function of batch, time sharing, or real-time computer systems developed and analyzed. Simulation, queuing, scheduling methods, and probability and statistics used as tools. Same course as CS 451. 5 lec.

438 Modeling and Analysis of Computer Systems (5)

Prereq: 437. Continuation of 437. See 437 for description. Same course as CS 452. 5 lec.

439 Information Systems Engineering (3)

Prereq: 'C' programming. Design of information systems including data bases, displays, and the automatic storage, retrieval, and transmission of data.

440A Industrial Plant Design I (3)

Prereq: 333, 445A, perm. Introduction to 2-qr program in which students will learn to design a manufacturing facility. First qtr topics include product and process analysis, plant size, layout and location, and building design, estimation of production time for each operation, production scheduling, and inventory control.

440B Industrial Plant Design II (3)

Prereq: 440A. (spring) Continuation of 440A with team design of a factory and emphasis on selection of process equipment, incentive wage system, quality control system, project management, and layout of facility using both computer and conventional techniques.

441 Introduction to Operations Research (3)

Prereq: 305 or perm. (winter) Basic methodology of operations research. Applications and mathematical structure of linear models, linear, integer, and dynamic programming, queuing theory, and other modeling techniques. 3 lec.

442 Inventory and Manufacturing Control II (3)

Prereq: 305 or perm. (winter) Branch and bound scheduling algorithms, horizon planning, control of integrated production, inventory and workforce systems, and linear decision rules. 3 lec.

443 Work Design in a Technological Society (3)

Prereq: perm. Exploration of interaction between industrial and systems engineering and labor as institution. Arbitration, technological change, and work organization. 3 lec.

444 Applications of Mathematical Programming (3)

Prereq: MATH 211 or perm. (spring, summer) Linear programming theory and practice. Topics include simplex method, 2-phase method, duality theory, and sensitivity analysis. 3 lec.

445A Systems Design I (3)

Prereq: 333, 432, 441, 448, 435, or with 435. (fall) Design methodology and principles. Identification and definition of design project.

445B Systems Design II (3)

Prereq: 445A. (spring) Individual or small-group system design project continued from 445A.

446 Design and Analysis of Maintenance Systems (3)

Prereq: 333, perm. (fall) Intended to provide industrial engineering students with working knowledge of maintenance systems and ability to design maintenance system.

447 Work Physiology and Occupational Biomechanics (4)

Prereq: 448. Introduction to the theory and methodologies involved in work physiology and occupational biomechanics. Structural and functional design of the human body to determine its implications for the design of physical work, tools, and the workplace itself. Applications to classification of work, manual materials handling, tool design, workplace design, and worker selection and training. Selected environmental conditions which alter performance (e.g., vibration, altitude, pressure variations) will be discussed.

448 Human-Machine Systems (3)

Prereq: with 307, ET 240, ENG 305J. (spring) Role of operator as subsystem in human-machine systems. Design principles for information displays, equipment controls, workplace environments, and life support systems. Design project required. 3 lec.

449 Cognitive Engineering (4)

Prereq: 448. Addresses the human capabilities/limitations in information processing, learning, perception and attention, and applications of this knowledge to the analysis and design of human-machine interfaces in the work environment.

489 Special Investigations (1-6)

Prereq: perm.

490 Advanced Problems in Computer Applications (1-6)

Prereq: perm. Special investigations of advanced industrial and systems engineering problems involving use of digital or analog computers.

Engineering, Mechanical (ME)

224 Dynamics (4)

Prereq: PHYS 251, C or better in CE 220 or perm. (fall, winter, spring) Motion of particles and rigid bodies, work and energy, impulse and momentum. 4 lec.

301 Kinematics and Dynamics of Machines (4)

Prereq: C or better in 224. (winter) Analytical and graphical solutions of motion problems involving mechanical elements: linkages, gears, cams and mechanical trains, etc.

313 Metal Processing (3)

Prereq: CE 222, CHE 331. (winter) Structure of metals, mechanics of metal forming and metal cutting. Analysis of forces, energy requirements, and temperature effects. Interrelationship between metal processing and mechanical properties.

321 Introduction to Thermodynamics (4)

Prereq: PHYS 253, MATH 263C. Basic engineering thermodynamics. Definitions, first law, properties and property relations, second law, availability, and applications to engineering problems.

328 Applied Thermodynamics (4)

Prereq: C or better in 321. (spring) Nonreactive and reactive mixtures, turbomachinery, analytical studies of gas and vapor power cycles, and refrigeration. 4 lec.

350 Introduction to CAD (3)

Prereq: jr/sr, ET 240, or perm. (fall, spring) Emphasis is upon use of the O.U. Computer Aided Design/Computer Aided Manufacturing System with the following topics covered: Engineering Design System, Engineering Modeling System, 3-D Graphics, Solid Modeling Concepts, Interactive Graphics Design System, Mechanical Graphics Editor, Unix Editor. Introduction to Unix and "C," Intergraph Finite element pre-post processors, and other topics as needed.

398 Junior Laboratory (3)

Prereq: 224. Introduction to measurement of various phenomena frequently encountered in mechanical engineering, e.g., strain, temperature, pressure, flow rate, displacement, and acceleration. Emphasis given to interpretation of data and preparation of laboratory reports.

400 Heating, Ventilation, and Air Conditioning (3)

Prereq: jr. Description and evaluation of heating, air conditioning, and total-energy systems employed to provide thermal environments for buildings ranging in scope from residences to integrated commercial, apartment, or industrial complexes. Covers human comfort, psychometrics, load analysis, techniques, equipment, and controls.

401 System Analysis and Control (4)

Prereq: MATH 340. (spring) Modeling and formulations of physical systems. Transient and steady-state dynamic responses, and other fundamental theory of automatic controls and applications. 3 lec, 1 lab.

403 Machine Design I (4)

Prereq: CHE 331, C or better in CE 222. (fall) Applications of mechanics, mechanisms, materials, and mechanical processes to design and selection of machine members and units of power transmission.

404 Machine Design II (4)

Prereq: 403. (winter) Morphology of engineering design. Applications of statistics and probability and techniques of optimization to design. Team design project.

406 Analysis and Design of Mechanisms (4)

Prereq: 301. Analysis and synthesis of planar and 3-dimensional mechanisms using classical and modern analytical approaches. Structural synthesis of mechanisms, dimensional synthesis of linkages for function generation, path generation, and for rigid-body guidance. Applications of matrix methods, optimization techniques, and computer solutions.

407 Fundamentals of Nuclear Engineering (4)

Prereq: perm. Nuclear engineering, including nuclear reactions, radiation detection and measurement, reactor criticality, principles of reactor control, radiation shielding, effects of radiation of materials, uses of radioactive materials.

408 Nonlinear Vibrations (3)

Prereq: perm. Qualitative and numerical study of mathematics and physics of nonlinear systems. Formulations of nonlinear engineering problems, solutions techniques, and stability analysis.

409 Advanced Engineering Dynamics (3)

Prereq: 224. Theoretical analysis and applications of dynamical aspects and problems of machines and systems.

412 Heat Transfer (4)

Prereq: MATH 340, ET 240, C or better in 321 and CE 340. (spring) Basic concepts of conduction in 1 or more dimensions, steady and transient modes. Radiation, fundamentals of convection in various modes, heat exchanger design. 4 lec.

413 Conduction and Radiation Heat Transfer (4)

Prereq: perm. Advanced analytical treatment of conduction and radiation heat transfer. Boundary value problems, orthogonal expansions, moving heat sources, multi-dimensional problems with time varying boundary conditions, finite difference analysis, conformal transformations, radiation network matrix analysis, diffuse-spectral exchange, and Monte Carlo techniques, etc.

416 Combustion (3)

Prereq: 328, 412, or perm. Introduces student to fundamentals of combustion; enables students to analyze complex combustion processes in constructive manner. Modern diagnostic techniques of combustion, and evaluation of pollution potential of different combustion processes.

417 Design of Thermal Systems (4)

Prereq: 328, 412. (fall) Design of systems in which thermodynamics, transport behavior, and optimization techniques are major considerations. Emphasis on total design approach including factors such as cost and reliability. Typical systems include power, propulsion, environmental, and cryogenic. Design project and report required.

418 Mechanical Engineering Experimentation (1)

Prereq: ME sr or grad. Instruction in experimental procedure and experience in designing and executing lab experiments. Students plan and execute their own experiments to acquire answers to assigned problems. Variety of areas covered including control systems, energy conversion, fluid flow, heat transfer, motion measurements, stress-strain. Instructional guidance provided by entire mechanical engineering staff. Provides familiarity with variety of instrumentation and procedures. 3-qr sequence with experimental subjects phased with prerequisites.

419 Mechanical Engineering Experimentation (1)

Prereq: ME sr or grad. Continuation of 418. See 418 for description.

420 Mechanical Engineering Experimentation (1)

Prereq: ME sr or grad. Continuation of 419. See 418 for description.

422 Stirling Cycle Machine Analysis (3)

Prereq: ET 240, 328, CE 340, with 412. Analysis and simulation of Stirling cycle machines, in which the single phase working gas operates in a closed thermal power cycle. Development and use of computer simulation techniques to model the nonsteady flow conditions including thermodynamics, heat transfer, and fluid flow friction effects.

424 Gas Dynamics I (3)

Prereq: CE 340 or perm. 1- and 2-dimensional compressible flow-isentropic flow, flow with heat transfer, friction, shocks, generalized 1-dimensional flow. Applications to propulsion systems. 3 lec.

425 Propulsion Systems Analysis (4)

Prereq: 424. Applications of basic engineering disciplines to design and analysis of vehicle propulsion systems. Extensive use of digital computers. Term report required.

427 Power Station Engineering (3)

Prereq: 328 and 412. Fuels, principles of combustion, stationary boilers, grates, stokers, furnaces, coal pulverizers, economizers, preheaters, superheaters, stacks, forced and induced draft, boiler-feed pumps, heat balances, and hydro power. 3 lec.

434 Fundamentals of Aerosol Behavior (4)

Prereq: 321, 412, or perm. Aerosol characterization transport properties, convective and inertial deposition, light scattering and visibility, experimental methods, coagulation, gas to particle conversion, general dynamic equation for aerosols.

435 Energy Engineering and Management (3)

Prereq: perm. Basic concepts and objectives of energy management, energy audit, engineering evaluation of several energy systems, availability analysis, second law efficiency, economic evaluation, and application of these principles to case studies.

440 Direct Energy Conversion (4)

Prereq: perm. (on demand) General principles of unconventional energy conversion. Thermoelectricity, thermionics, MHD, fuel cells, photovoltaics, wind systems, solar systems, and energy storage.

446 Potential Flow Theory (3)

Prereq: perm. Inviscid flow theory. General equations of fluid dynamics, study of potential flow. Grad-level course open to selected undergrads.

447 Viscous Flow Theory (3)

Prereq: perm. (winter) Mechanics of fluid resistance, laminar and turbulent flow. Applications to external boundary layer flow and to flow in ducts. Grad-level course open to selected undergrads.

450 Computer-Aided Design (3)

Prereq: 403, 412, 491, or perm. (winter) Applications of contemporary computer-modeling techniques to solve complex problems in stress, heat transfer, dynamic systems, and fluid flow. Emphasis given to applications of these techniques to solve specific problems in mechanical-engineering design.

455 Mechatronics I (4)

Prereq: 224, ET 240, with EE 314. (winter) Principles of design of computer-based, intelligent machines. Microprocessor/microcomputer fundamentals, input-output sensors and actuators, computer achievement of machine kinematics, robot-control techniques, lab experience in microprocessor-machine interfacing.

456 Robotics II (3)

Prereq: 403, 401, 455 or equiv, EE 314, perm. (spring) Continuation of 455. Design of intelligent machines with emphasis on design for assembly and design for adaptive tasks. Actuator characteristics and control; kinematics, dynamics, and path control of connected links; special requirements of advanced robotics tasks; optical, acoustical, and tactile sensing and control; end effector and workstation fixtures design.

460 Computer Integrated Manufacturing/Processes (4)

Prereq: 450 or perm. Introduction to numerical control: control systems for NC; communication media; NC programming languages—SPPL and APT; mathematics for NC; parametric splines, Bezier Curves, and B Splines; sculptured surfaces including Coons bi-cubic patch and B-surf.

462 Manufacturing Processes (4)

Prereq: grad in ENT/perm. The basic theory of plasticity and its application to manufacturing processes. Applied theories of metal working processes such as forging, extrusion, rolling, and some aspects of machining; theories of polymer processing, composite and reinforced materials processing use of application of materials information systems (MIS), and mapping techniques.

475 Solar Design (3)

Prereq: jr/sr, MATH 263C, PHYS 253, or equiv. Introduction to theoretical principles and practical design aspects of solar energy systems. Topics covered include principles of radiation; heating load computation; air and liquid, flat-plate collectors; concentrating collectors; energy storage; photovoltaic conversion; economic analysis.

480 Colloquium (1)

Prereq: sr. Open presentation of individual engineering analysis or design effort. Requires demonstration of individual analytical or design ability, knowledge of engineering fundamentals, and satisfactory oral presentation techniques.

484 Projects in Thermal Machinery (3)

Prereq: perm, good academic record. Research in thermal machines. Individual work on experimental or analytical project involving current problems. Training in use of library, theory and use of instruments, error analysis, planning of experiments, effective report writing. Students should elect 2-term sequence to allow adequate time for completion of meaningful project. Report required.

485 Projects in Thermal Machinery (3)

Prereq: perm, good academic record. Continuation of 484. See 484 for description.

486 Projects in Thermal Machinery (3)

Prereq: perm, good academic record. Continuation of 484-485. See 484 for description.

489 Special Investigations (1-6)

Prereq: perm.

491 Mechanical Vibrations I (3)

Prereq: C or better in 224, MATH 340, ET 240, sr, grad. (fall) Characteristic phenomena of mechanical vibrations encountered in machines and structures (of 1 degree of freedom) and their quantitative investigation. Simple harmonic motion; free, transient, and forced vibrations, and damping effects.

492 Mechanical Vibrations II (4)

Prereq: C or better in 491, perm. (spring) Application of matrix methods; 2 degrees of freedom systems; lumped mass systems with several degrees of freedom, and methods for normal mode determination. 4 lec.

493 Lubrication and Bearing Analysis (3)

Prereq: perm. Concepts of boundary, hydrostatic, and hydrodynamic lubrication. McKee, and Boyd and Raimondi methods. Solid lubrication, porous bearings, and gas bearings.

494 Advanced Machine Design (3)

Prereq: perm. Advanced considerations in design and analysis of machine members, strength under combined stress, thermal stress, fatigue in metals, and design using plastics. 3 lec.

495 Introduction to Kinetic Theory and Statistical Thermodynamics (4)

Prereq: perm. Kinetic theory, classical and quantum statistical mechanics with applications to engineering devices. 3 lec.

496 Experimental Methods in Design (3)

Prereq: 403, perm. Investigation and evaluation of experimental methods that may be used to obtain design and performance data. Techniques of photoelasticity, strain measurements, and vibration measurement.

497 Methods of Engineering Analysis I (4)

Prereq: MATH 340 or perm. (fall) Applications of matrices, Fourier series, partial differential equations, and Bessel functions.

498 Senior Laboratory (3)

Prereq: 398, 412, 403 or concurrent. Mechanical engineering experiments. Measurement of the behavior of more complex systems encountered in mechanical engineering. Equal emphasis given to mechanical systems and to thermal and fluid systems. Engines, vibrating systems, wind-tunnel experiments, refrigeration systems, fatigue, multi-dimensional stresses, and combustion are typical subjects for investigation.

499 Senior Design Project (4)

Prereq: 404 or 417, and perm. Capstone design project in mechanical engineering. Self directed or group project which requires typical design activities such as decision making, feasibility evaluation, technical analysis, performance summary, technical report preparation, and oral technical presentation. Projects may be individually arranged with a faculty member in mechanical engineering or a group project (current examples are the Mini Baja Vehicle Contest or the Walking Robot Contest). Subject matter can be mechanisms, thermal/fluid systems, control systems, etc. Oral final presentation to senior class and panel of faculty required.

Engineering and Technology (ET)

100 Engineering and Technology (3)

(summer) Introductory course to engineering and technology for students in the Summer Pre-Engineering Program. Lectures in related fields and involvement in engineering problems through student-selected projects.

134 Electronic Maintenance (3)

Information on how to maintain and repair all types of electronic equipment (e.g., computers, solid state equipment, and stereophonic equipment). No previous experience in electronics necessary. Demonstrations and lab experience will provide each student with theory and practical basic instructions on how to use test equipment. 1 lec, 4 lab.

181 Computer Methods in Engineering I (4)

Prereq: MATH 263A, preference given to ET or pre-engineering majors. Introduction to application of digital computation for solution of engineering problems, with emphasis on methodology and organization. Problem formulation and programming using structured language in a microcomputer-based

interactive environment. Emphasis on logical program development and strategy, data input/output and processing, arrays, procedures, and functions and their role in solving engineering problems through modular program design.

190 Cooperative Education Field Experience I (1)

Prereq: perm. Required of, and limited to, students on approved co-op work assignments. Prior approval required before a student registers. Credit earned is not applicable toward specific degree requirements, but will accumulate in the student's academic credit total. In addition to continual monitoring of student's progress by the cooperative education coordinator and the faculty advisor, participating students are required to submit a final report of their activities.

240 Computer Methods in Engineering II (4)

Prereq: C or better in 181 and MATH 263C or with 263C or perm. Introduction to application of digital computation techniques to engineering problems including applied numerical methods. Study and use of C-language as analytical tool. Utilization of common computer peripheral equipment.

280 Engineering and Technology—Overview (4) (2A)

Intended for students of all majors and non-Engineering Technology students are encouraged. Provides an overview of engineering and technology, to place the profession in a historical context, to examine the views of supporters and detractors, to examine moral and ethical issues associated with the profession in society, and to develop an appreciation for the manner in which engineering and technological work is conducted. Emphasizes a "problem-solving" approach to questions of all kinds, but more specifically to technological ones.

290 Cooperative Education Field Experience II (1)

Prereq: perm. See 190.

320 History of Western Technology (3) (2A)

Survey of significant technological innovations of Western civilization from Greco-Roman period into 20th century. Interrelationships, in history, between technology and society. Background in technology or science not required.

322 Introduction to Materials Behavior (3)

Introductory materials science course covering behavior of metals, polymers, and ceramics for nontechnical majors.

325 Pollution Solutions I (3)

Understanding current air pollution problems, their causes, effects, and possible solutions and impact of those solutions on society.

326 Pollution Solutions II (3)

Same course description as 325 covering different aspects and topics. Not a continuation of 325.

331 Fluid Dynamics for Nonengineers (3)

Prereq: jr or perm. Not open to engineering students. Physical, not mathematical, introduction to principles controlling fluid motions in our environment. Study of weather, flood circulation, aerodynamics, river hydraulics, and rocketry through design of golf balls and plumbing systems included. Introduction to mechanics, fluid properties, fluids at rest and in motion. Lectures and reading assignments supplemented with films.

334 Water Pollution Control (3)

Prereq: soph, non-engineering students. Designed for student with limited technical background but who is interested in problems of water pollution. Deals with nature of water, source and character of pollutants, technology of wastewater renovation, ecology of water pollution, and legal, economic, and administrative constraints.

337 Transportation Today (3)

Prereq: jr or perm, not open to civil engineering majors. Designed for student with limited technical background who is interested in gaining knowledge in area of highway and transportation planning and design. Major topics include geometric factors, traffic studies, modes of transportation, human equation, and planning strategies.

345 Fundamentals of Analog Computation (3)

Prereq: MATH 340. Basic operation of analog computer and auxiliary equipment. Solution of linear and nonlinear differential equations and simulation of physical systems on analog computer.

350 Engineering and the Technological Society (3) (2A)

Prereq: jr or sr. Technical inventions and social inventions, impact and social consequences of engineering public policy issues, ethical considerations, and some exploration of alternative futures. Discussion and lecture format used.

360 Communication Technology (3)

Introduction to theory and application of electronic devices and systems employed in communications. Topics include, among others, human-to-computer communication, CRT terminals, radio and television receivers and transmitters, communication satellites, information transmission by light waves. Not open for credit to engineering majors.

390 Cooperative Education Field Experience III (1)

Prereq: perm. See 190.

400 Professional Engineering Fundamentals Review (2)

Prereq: sr. Review of basic engineering principles. Provides a compact review of basic engineering principles and illustrated by practical solutions.

445 Advanced Numerical Methods (4)

Prereq: ME 497 or equiv. (winter) Numerical methods for solution of ordinary and partial differential equations, stability considerations and error estimates, application to variety of engineering problems, numerical method of lines and integration procedures for stiff ODE systems.

470 Energy and the Environment (3) (2A)

(on demand) Technical, economic, political, and environmental factors in energy production. Conventional, gasification, synfuels, fission, fusion, solar, wind, and possible future conversion techniques. Course designed to provide understanding needed for intelligent participation in societal decisions related to energy issues. (Equiv to MATH 445.)

490 Cooperative Education Field Experience IV (1)

Prereq: perm. See 190.

English

(Major code #BA5231)

The major requirement for the A.B. degree consists of at least 56 hours above 199, including the following: (A) two courses from 201, 202, 203; (B) 301 or 302 or 303; (C) two courses from 311, 312, 313; (D) 314, or 315; (E) two courses from 321, 322, 323; (F) 351 or 352 or 353; (G) 399; (H) 460; (I) 464 or 465 or 466.

Because 307J is a prerequisite for 399, majors are encouraged to satisfy their Tier I junior composition requirement with 307J. It should be noted, however, that a "J" course taken to satisfy the Tier I requirement will not count toward hours in the major.

An intensive, two-year major program by tutorial instruction is offered by the Department of English, beginning each fall term. Information is available from the department chair.

Students who wish to major in creative writing (major code #BA5232) will take 16 hours of creative writing, 12 of which will be in addition to the requirements for an English major, and four of which will be 481 or 482 or 483 instead of 460.

Honors work in English: see Departmental Honors under Honors Tutorial College. For general English requirements, see the College of Arts and Sciences section of this catalog.

English minor: The English minor consists of a minimum of 24 hours above 199 including a minimum of two courses above 299 and excluding the course used to fulfill the junior composition requirement. Students are encouraged to plan their minor with a faculty advisor in the Department of English.

English Language and Literature (ENG)

150 Developmental Writing Skills (4)

Prereq: placement or recommendation (but note that credit for 150 will not be given any student who has passed any higher-level English course). Only students with severe writing disabilities should enroll in 150; students who are merely weak or anxious about their preparation should enroll in 151 and seek concurrent tutoring from the Academic Advancement Center. Does not satisfy Arts and Sciences humanities requirement. (Nonnative speakers should take 150A.)

151 Freshman Composition: Writing and Rhetoric (5) (1E)

Prereq: 150 or 151 placement in assigned quarter. Focuses on writing expository essays which are well organized and logically coherent. Students write approximately 10 essays (5,500 words). Essay topics come from personal experience or from reading nonfiction. Not a grammar course; those who require services of tutor in correcting sentence errors should consult Academic Advancement Center. (Nonnative speakers should take 151A.)

152 Freshman Composition: Writing and Reading (5) (1E)

Prereq: fr and soph only. Focuses on writing expository essays which are well organized and logically coherent. As preparation for 4-5 papers required, students will read fiction, poetry, and drama focused on common themes and discuss their understanding of issues and works presented.

153 Freshman Composition: Special Topics (5) (1E)

Prereq: fr and soph only. Similar in structure and purpose to 152 but each section—topic and texts—designed by person who teaches it. Specific course description with text lists advertised qtrly in Ellis Hall.

153A Freshman Composition: Special Topics Women and Men in Literature (5) (1E)

Prereq: fr and soph only. Readings used to examine depiction of women and men in literature. Students encouraged to think and write about how, in both literature and life, women and men see themselves and each other, how people learn what society expects of them, and about such topics as sexuality, marriage, friendship, and rebellion against sex roles.

153B Freshman Composition: Special Topics African American Experiences in Literature (5) (1E)

Prereq: fr and soph only. Readings examine various experiences of African Americans in America, from earliest writings up to—and emphasizing—most contemporary literature. Including fiction, poems, essays, and autobiography, course deals with oppression, violence, and tragedy as well as humor, joy, and love.

200 Introduction to Literature (4) (2H)

Prereq: 151 or 152 or 153 or 153A/B. Approaches to reading and interpreting literature, emphasizing skills, techniques, and language of interpretation.

201 Critical Approaches to Fiction (4)

Prereq: 151 or 152 or 153 or 153A/B. Critical foundations of fiction: close textual analysis

202 Critical Approaches to Poetry (4)

Prereq: 151 or 152 or 153 or 153A/B. Critical foundations of poetry: close textual analysis

203 Critical Approaches to Drama (4)

Prereq: 151 or 152 or 153 or 153A/B. Critical foundations of drama: close textual analysis

203A Interpretation of Drama (Film) (5) (2H)

Prereq: 151 or 152 or 153 or 153A/B. Critical consideration of relationship of film to literature, e.g., film adaptations of literary classics, films made by literary artists, etc. May not be taken to fulfill major requirement of any concentration. 201, 202, 203

204 Introduction to International Literature I: The Classical Tradition (4) (2H)

Prereq: one course above 199. Selected classical texts, sometimes alone and sometimes in conjunction with modern texts, for purpose of defining classical sensibility in Western literature.

205 Introduction to International Literature II: Romantic Tradition (4) (2H)

Prereq: one course above 199. Will deal with aesthetic and philosophical concepts that have formed Romantic Tradition in Western literature. Concentration on works by German, English, and French writers.

206 Introduction to International Literature III: The Modern Tradition (4) (2H)

Prereq: one course above 199. Selected literary works which provide background for and express modern sensibility in Western literature.

210 Critical Approaches to Popular Literature (4)

Prereq: one course above 150. Introduction to techniques of literature and literary criticism using books from that area where serious literature and popular literature meet.

270 Special Studies: Individual or Comparative Authors (2-3)

Prereq: one course above 150. Intensive study of individual or comparative authors: (A) Medieval, (B) Renaissance, (C) Restoration and 18th century, (D) 19th-century American, (E) 19th-century British, (F) 20th-century American, (G) 20th-century British, (H) Continental.

271 Special Studies: Selected Themes or Topics in Literature (2-3)

Prereq: one course above 150. Intensive study of selected theme or topic: (A) poetry, (B) fiction, (C) drama, (D) comparative genres, (E) language, (F) stylistics and rhetoric, (G) literature and film, (H) criticism.

277T English Tutorial (1-10)

Prereq: admission into English Tutorial Program fall quarter. First year.

278T English Tutorial (1-10)

Prereq: admission into English Tutorial Program winter quarter. First year.

280 Expository Writing and the Research Paper (4)

Prereq: one course above 150. Intermediate-level writing course offering practice in library research, techniques of documentation, and writing research paper.

301 Shakespeare: The Histories (4)

Prereq: two courses from the 201-203 sequence or jr.

302 Shakespeare: The Comedies (4)

Prereq: two courses from the 201-203 sequence or jr.

303 Shakespeare: The Tragedies (4)

Prereq: two courses from the 201-203 sequence or jr.

304 English Bible (4)

Prereq: one course above 150. Selected prose and poetry of the Jewish and Christian scriptures.

305J Technical Writing (4) (1J)

Prereq: jr and completion of first-year composition. Focuses on writing of clear and concise proposals, feasibility reports, progress reports, and descriptions of mechanisms and technical processes.

306J Women and Writing (4) (1J)

Prereq: jr and completion of first-year composition. Focuses on women and writing; concentrates on issues of gender. Satisfies the upper-level undergraduate writing requirement.

307J Writing and Research in English Studies (4) (1J)

Prereq: jr and two courses from 201, 202, 203. Introduces scholarly writing in English studies: research reports, integration of primary and secondary texts, library resources, and MLA/Chicago documentation.

308J Advanced Composition (4) (1J)

Prereq: jr and completion of first-year composition. Aim: to increase skills and expertise in writing of discursive prose. Method: regular practice and evaluation, supplemented by attention to professional prose and concepts in rhetoric and style.

Note: The department strongly recommends that majors complete 307J before taking any of the following eight survey courses.

311 English Literature to 1500 (4)

Prereq: two courses from 201-203 sequence. Authors, works, and genres of Old and Middle English literature.

312 English Literature: 1500-1660 (4)

Prereq: two courses from 201-203 sequence. Authors, works, and genres of Renaissance English literature.

313 English Literature: 1660-1800 (4)

Prereq: two courses from 201-203 sequence. Authors, works, and genres of Restoration and 18th-century English literature.

314 English Literature: 1800-1900 (4)

Prereq: two courses from 201-203 sequence. Authors, works, and genres of Romantic and Victorian English literature.

315 English Literature: 1900 to Present (4)

Prereq: two courses from 201-203 sequence. Authors, works, and genres of 20th-century English literature.

321 American Literature to the Civil War (4)

Prereq: two courses from 201-203 sequence. Major works, writers, and genres of American literature before Civil War.

322 American Literature Since the Civil War (4)

Prereq: two courses from 201-203 sequence. Major works, writers, and genres of American literature from the end of the Civil War to the end of World War I.

323 American Literature: 1918 to Present (4)

Prereq: two courses from 201-203 sequence. Authors, works, and genres of American literature from the end of World War I to the present.

325 Women and Literature (4)

Prereq: one course above 199 and jr or perm. Surveys work of significant past and present women writers.

327 African American Fiction (4)

Prereq: one course above 150. Also includes autobiography.

328 African American Poetry (4)

Prereq: one course above 150.

329 African American Drama (4)

Prereq: one course above 150.

331 Studies in Asian Literature (4) (2T)

(fall) Introduction to cultural background of Asian literature.

332 Studies in Asian Literature (4) (2T)

(winter) Continuation of 331. Study of classical Asian literature.

333 Studies in Asian Literature (4) (2T)

(spring) Continuation of 332. Study of modern Asian literature.

335 The Ohio University Writers (4)

Features personal visits to classroom by writers teaching at Ohio University to discuss their works with students, to answer questions from class, and to read from new work or work in progress.

336 McGuffey Lectureship in Literature (1-4)

Prereq: one course above 150. Special series of lectures by current McGuffey Visiting Professor of English. Subject announced each qtr. Lectures offered determine credit hrs assigned.

341 American Literature (4)

Prereq: one course above 150. American authors, themes, genres, usually in 19th- and 20th-century literature.

342 English and Continental Literature (4)

Prereq: one course above 150. Authors, themes, genres, in English and European literature.

349 History of Books and Printing (4)

Prereq: one course above 150. Introduction to history of the book and its place in development of Western culture from ancient world to present. Approach is primarily historical, cultural, and aesthetic rather than technical.

350 Traditional Grammar, Mechanics, and Usage (4)

Prereq: one course above 150. Concentrates upon grammatical understanding and awareness of relationships in sentence structure, including understanding of incidental usage and punctuation.

351 The History of the English Language (4)

Prereq: jr. Course examines changes affecting English; sound patterns, grammatical forms, vocabulary, and semantic values.

352 The Development of American English (4)

Prereq: jr. Regional and social varieties of English.

353 The Structure of American English (4)

Prereq: jr. Study of English grammar using a linguistic model chosen from contemporary linguistic theories.

361 Creative Writing: Fiction (4)

Prereq: 200 or 201 or perm. Beginning course in short fiction with emphasis on invention, craft, and criticism of student writing and published fiction.

362 Creative Writing: Poetry (4)

Prereq: 200 or 201 or perm. Beginning course in poetry with emphasis on invention, craft, and criticism of student writing and published poetry.

363 Creative Writing: Nonfiction (4)

Prereq: 200 or 201 or perm. Beginning course in nonfiction with emphasis on invention, craft, and criticism of student writing and published nonfiction.

377T English Tutorial (1-10)

Prereq: admission into English Tutorial Program. Spring quarter. First year.

378T English Tutorial (1-10)

Prereq: admission into English Tutorial Program. Fall quarter. Second year.

393 Creative Writing Workshop: Short Story (4)

Prereq: 361 and perm. Instruction and practice in writing of fiction, concentrating on development of narrative techniques, character building in stories, staging scenes in narrative, etc.

394 Creative Writing Workshop: Poetry (4)

Prereq: 362 and perm. Experience and language of poetry, and emphasis upon practice of writing poetry.

395 Creative Writing Workshop: Nonfiction (4)

Prereq: 363 and perm. Will concentrate on writing nonfiction and will explore general techniques of prose as they apply to fictionalized biography and literary essay and as used to dramatize effectively works that are generally considered nonfiction.

399 Literary Theory (4)

Prereq: two courses from 201-203, 307J, and two courses from 310-323. Required of majors before 460, 464, 465, and 466. Recent issues in literary theory and the study of literary texts.

430 American Literature (3)

Prereq: enrollment in Inst. Amer. Cult. Modern and contemporary American literature as part of the annual summer Institute in American Culture for Austrian Students and Teachers.

441 Colloquium (4)

Prereq: sr. (fall) Specific interdisciplinary problems to be assigned each quarter.

442 Colloquium (4)

Prereq: sr. (winter)

443 Colloquium (4)

Prereq: sr. (spring)

445 Special Studies (4)

Prereq: sr.

447 Studies in Criticism (4)

Prereq: sr. Problems in critical theory.

451 Teaching Language and Composition (3)

Prereq: sr. Content and methods of presentation for teaching language and composition in high school. Not applicable to Arts and Sciences 200-level requirement.

452 Teaching Literature (3)

Prereq: sr. Content and methods of presentation for teaching literature in high school. Not applicable to Arts and Sciences 200-level requirement.

455 English Education Workshop (1-5)

Prereq: teaching certificate or equiv or perm. Studies in principles, problems, approaches, and issues in teaching of English from elementary school to post-secondary. Topics vary.

456 Readings in Children's Literature (4)

Prereq: one course above 199. Consideration of

historical development of children's literature, philosophical and aesthetic bases.

457 Readings in English Education (4)

Prereq: jr. Recent developments and writings in English education and their possible application to teaching of jr and sr high school English.

460 Literary Topics (4)

Prereq: 399 and sr. Topics may include genres, rhetoric, literary theory.

464 Major English Authors (4)

Prereq: 399 and sr. Writers to be studied named in subtitle.

465 Major American Authors (4)

Prereq: 399 and sr. Writers to be studied named in subtitle.

466 Major International Authors (4)

Prereq: 399 and sr. Writers to be studied named in subtitle.

477T English Tutorial (1-10)

Prereq: admission to English Tutorial Program. Winter quarter. Second year.

478T English Tutorial (1-10)

Prereq: admission to English Tutorial Program. Spring quarter. Second year.

481 Form and Theory of Literary Genres: Fiction (4)

Prereq: 8 hrs creative writing. Theoretical considerations of fiction.

482 Form and Theory of Literary Genres: Poetry (4)

Prereq: 8 hrs creative writing. Theoretical considerations of poetry.

483 Form and Theory of Literary Genres: Nonfiction (4)

Prereq: 363, 395, and perm. Theoretical considerations of nonfiction.

486 Advanced Workshop in Fiction (4)

Prereq: 393 and perm in advance.

487 Advanced Workshop in Poetry (4)

Prereq: 393 and perm in advance.

490 Independent Reading (1-15)

Prereq: perm. Directed individual reading and research.

499 Honors Project (5-15)

Prereq: perm. Completion of individual writing project for A.B. with honors in English.

Humanities (HUM)**107 Humanities—Great Books (4) (2H)**

Prereq: fr and soph only. (fall) Ancient classics of Western civilization (Greek, Roman, Biblical) leading toward understanding of cultural heritage. Guidance in critical thinking, reading, and writing about those works.

108 Humanities—Great Books (4) (2H)

Prereq: fr and soph only. (winter) Medieval and Renaissance classics of Western civilization. See 107 for further description.

109 Humanities—Great Books (4) (2H)

Prereq: fr and soph only. (spring) Modern classics of Western civilization (18th-20th centuries). See 107 for further description.

117 Humanities—Great Books of the Orient (4) (2H)

Prereq: fr and soph only. Masterpieces (both ancient and modern) of India, China, and Japan, leading toward understanding of Oriental culture.

307 Humanities—Great Books (4)

Prereq: jr and sr only. (fall) Ancient classics of Western civilization (Greek, Roman, Biblical) leading toward understanding of cultural heritage. Guidance in critical thinking, reading, and writing about those works. (Not recommended for students who have taken 107.)

308 Humanities—Great Books (4)

Prereq: jr and sr only. (winter) Medieval and Renaissance classics of Western civilization.

309 Humanities—Great Books (4)

Prereq: jr and sr only. (spring) Modern classics of Western civilization (18th-20th centuries).

Environmental and Plant Biology (PBIO)

For students interested in careers in plant biology, plant pathology, biotechnology, environmental biology, natural resources, conservation, forestry, field biology, agronomy, horticulture, plant breeding, landscaping, freshwater and marine biology, cell biology, or agri-business, the Department of Environmental and Plant Biology offers major programs in the following specializations: plant biology (major code #BS2111, BA2111); preforestry (major code #BS2112); environmental biology—plant biology emphasis (major code #BS2113); applied plant sciences (major code #BS2114); field biology (major code #BS2115); advanced training in plant biology (major code #BS2116); agri-business (major code #BA2117); and cell biology and biotechnology (major code #BS2118). For further information relating to these programs, please see Special Curricula under the College of Arts and Sciences section in this catalog. The requirements for the plant biology major, both A.B. and B.S., are given below.

The A.B. degree in plant biology is designed for the student interested in the plant sciences but who desires a broad, liberal education. Many students may find that the flexibility in this program allows for either a minor or second major in another discipline such as economics, business administration, computer science, anthropology, sociology, geography, geological sciences, microbiology, biological sciences, etc. Students who plan to do graduate studies in plant biology or one of the related biological sciences should consult a departmental advisor for assistance in selecting a program that is designed for preparation for advanced degrees.

For an A.B. degree with a major in plant biology, the student must complete a minimum of 40 credit hours in PBIO courses, including 110, 111, and a minimum of two courses from each of the following three areas: Area A: 331, 412, 424, 427, 431, 450, 453; Area B: 309, 425, 426, 475; Area C: 307, 308, 310, 312, 420, 460. The following nondepartmental courses also are required: CHEM 121, 122, 123; BIOS 171, 173; and one course from the following: MATH 163A, MATH 250B, CS 220, CS 230, PSY 121.

For a B.S. degree with a major in plant biology, the student must complete a minimum of 50 credit hours in PBIO courses, including 110, 111, 404, and a minimum of two courses from each of the following three areas: Area A: 331, 412, 424, 427, 431, 450, 453; Area B: 309, 425, 426, 475; Area C: 307, 308, 310, 312, 420, 460. Additional courses to complete the 50 credit hour requirement are to be selected from areas A, B, and C, or from other PBIO courses numbered above 200, with the exception of those courses not intended for plant biology majors. The following nondepartmental courses also are required: CHEM 151, 152, 153, 301, 302; BIOS 171, 173; PHYS 201, 202, 203; MATH 163A, 163B; and one course from the following: MATH 250B, CS 220, CS 230, PSY 121.

In addition to major programs, the Department of Environmental and Plant Biology offers a minor. Requirements for the minor in plant biology consist of a minimum of 28 credit hours of coursework in plant biology, including PBIO 110 and 111, and at least two courses at the 300 level or above.

100 The World of Plants (4)(2N)

(fall, spring) *J. Braselton, B. McCarthy.* For nonscience majors. Survey of variety of plants and how they affect and are affected by humans. 4 lec.

100L The World of Plants with Laboratory (5) (2N)

(fall, spring) *J. Braselton, B. McCarthy.* Same lecture as 100 with additional laboratory to provide practical experience with plants and topics discussed in lecture. 4 lec, 2 lab.

102 Plant Biology (5) (2N)

(fall, winter) For nonscience majors. Structure of seed plants as related to function. Survey of plants, with emphasis on life histories, reproduction, and relationships of selected plant groups. Credit not allowed for both 102 and 111. 4 lec, 2 lab.

103 Plants and People (4) (2A)

J. Cavender, R. Lloyd, J. Salick, A. Trese. Interrelationships of plants and humans from both historical and modern points of view, origins of agriculture and civilization, tropical and temperate food plants, medicinal plants, drug plants, destruction of environment, and its ultimate effect on food plants. 3 lec, 1 disc.

110 Introduction to Plant Biology (6) (2N)

(fall, winter) *J. Mitchell.* For plant biology and other science majors, preprofessional students, and science modular students. Introduction to fundamental biological principles as they affect plant science. Reproduction of plants and cells, structure and function of cells and cell organelles, classical and molecular genetics, plant growth and development, evolution and ecology. Credit not allowed for both 110 and any of the following: BIOL 101; BOT 101; ZOOL 101; BOT 110; ZOOL 150; ZOOL 170; BIOS 170. 4 lec, 4 lab.

111 Introduction to Plant Biology (6) (2N)

Prereq: 110 or BIOS 170 or perm. (winter, spring) *P. Cantino, J. Graffius.* For plant biology and other science majors, preprofessional students, and science modular students. Survey of plants, with emphasis on systematics, evolutionary relationships, life histories, and reproduction of representative plant groups; introduction to morphology and anatomy of vascular and nonvascular plants. Credit not allowed for both 102 and 111. 4 lec, 4 lab.

160 Applied Plant Sciences and Technology (4) (2A)

N. Cohn, J. Mitchell. For nonscience majors. Study of technology for generation of plants and plant products that contribute to functioning of society, impact which these activities have on world economy and environment, and research efforts aimed at improving contribution of plants through breeding or current genetic engineering techniques. 4 lec.

220 Woody Plants (4)

(fall) *J. Graffius.* Not intended for plant biology majors. Introduction to identification of local woody plants, and to the use of keys in plant identification. Credit not allowed if 248 completed. 2 lec, 4 lab.

225 Flowers (4)

(spring) Not intended for plant biology majors. Identification of local flowers and discussion of the role of flowers in their natural environments. Credit not allowed if 309 completed. 2 lec, 4 lab.

247 Vegetation of North America (4)

Prereq: 1 course biology or perm. (winter) *I. Ungar.* Illustrated lecture course considering extensive plant formations with relationship to climate, soil, geographic formations, and influence of humans. 4 lec.

248 Trees and Shrubs (Dendrology) (4)

Prereq: 111 or 102. (fall) *P. Cantino, J. Graffius.* Collection, identification, nomenclature, classification, ecological relationships, and importance to humans of native and introduced woody plants. 2 lec, 4 lab, supplementary field trips.

297T Plant Biology Tutorial (1-15)

Prereq: Tutorial college and perm. (fall)

298T Plant Biology Tutorial (1-15)

Prereq: Tutorial college and perm. (winter)

299T Plant Biology Tutorial (1-15)

Prereq: Tutorial college and perm. (spring)

303 Medicinal Plants of Ohio (3)

Isisummary, J. Cavender. Summer workshop. Identification, history, and uses of medicinal plants; characteristics of herb families, preparation of simple herbal remedies. Field trips to conifer woods, flood plain, cove forest, swamp, and commercial herb-growing establishment. 3 lec.

307 Morphology of Algae and Bryophytes (6)

Prereq: 111 or 102. (spring, odd years) *J. Graffius.* Comparative studies of structure, evolutionary relationships, life histories, and reproduction of various representatives of major groups of algae and bryophytes. 4 lec, 4 lab.

308 Morphology of Vascular Plants (6)

Prereq: 111 or, with perm, 102. (winter) *G. Rothwell.* Diversity of vascular plants as reflected by structural, developmental, and reproductive features of major groups; emphasis on evolution of diversity through systematically significant adaptations. 3 lec, 6 lab.

309 Plant Systematics and Ohio Flora (6)

Prereq: 111 or 102. (spring) *P. Cantino, R. Lloyd.* Principles and methods of systematics and taxonomy: classification, floral biology, and evolution of flowering plants. Lab: identification and classification of spring flora. 3 lec, 6 lab, field trips.

310 Biology of Fungi (5)

Prereq: 111 or 102. (fall) *J. Cavender.* Morphology and life history studies of selected fungi of major groups; collection, isolation, and growth of selected fungi; fungal activities. 3 lec, 4 lab.

311 Biology and Human Affairs (4)

Prereq: 1 course biology, or perm. (winter) *J. Cavender.* Discussion of impact of modern biology upon human problems in biological, social, moral, and political areas. No credit toward major. 4 lec.

312 Plant Anatomy (5)

Prereq: 111 or, with perm, 102. (fall) *G. Rothwell.* Structure, development, and systematic anatomy of vascular plants. 3 lec, 4 lab.

313 Special Topics in Plant Biology (1-6)

Prereq: perm. Current and/or special topics in plant biology.

313B Supervised Study (1-3)

Prereq: plant biology majors and perm.

331 Plant Genetics (5)

Prereq: 111 or 102. (winter) *A. Trese.* Basic principles of genetics as they relate to plants, including transmission, expression, and evolution of genetic materials. 5 lec.

360 Field Experience in Elementary or Secondary Schools, or Equivalent (2)

Prereq: jr and perm. (winter) *J. Braselton.* Observation and participation in elementary and secondary schools, or the equivalent. Approval must be secured from the 368 instructor prior to enrollment. Concurrent registration in 360 and 368 suggested. May be repeated. 4 lab.

368 Teaching of Biology (4)

Prereq: 18 hrs biology. (winter) *J. Braselton.* Discussion, demonstration, and practice of goals and skills in biological teaching. Written and verbal evaluation and criticism of journals, texts, and A-V programs. Analysis and criticism of lab experiments. 2 lec, 4 lab.

397T Plant Biology Tutorial (1-15)

Prereq: Tutorial college and perm. (fall)

398T Plant Biology Tutorial (1-15)

Prereq: Tutorial college and perm. (winter)

399T Plant Biology Tutorial (1-15)

Prereq: Tutorial college and perm. (spring)

404 Undergraduate Research (2-6, max 12)

Prereq: 24 hrs plant biology and perm. Independent research under supervision of faculty member.

410 Plants and Soil (4)

Prereq: 111 or 102; 2 qtrs chemistry. (winter, even years) *J. Cavender.* Soil as environment for plant growth; interrelationships between plant and soil; role of soil organisms in cyclic processes; building and maintenance of soil fertility; relationships between soil and health of plants, animals, and humans. 3 lec, 2 lab.

411 Integrative Tropical Plant Biology (4)

Prereq: jr or sr and perm. (winter) *J. Cavender.* Field course of tropical plants in Belize/Guatemala important in sustainable food/fiber/medicine production and ecosystem stability. 2 lec, 6 lab.

412 Plant Pathology (5)

Prereq: jr or sr majors in biology (spring, even years) *A. Trese.* Diseases of plants; history, types of pathogens and disease cycles, impact in nature and agriculture, disease control strategies. Isolation and identification of pathogens. 3 lec, 4 lab.

420 Freshwater Algae (5)

Prereq: 111 or, with perm, 102. (spring, even years) *J. Graffius.* Taxonomy and ecology of freshwater algae, with emphasis on identification and distribution of common or representative genera. 3 lec, 4 lab.

424 Plant Physiology (6)

Prereq: 111 or 102; organic chemistry recommended. (winter) *I. Smith.* Basic chemical and physical aspects of plant processes; photosynthesis, respiration, mineral nutrition, transport, nitrogen metabolism, water relations, and growth. 3 lec, 6 lab.

425 Plant Ecology (5)

Prereq: jr or sr. (fall) *B. McCarthy, I. Ungar.* Effect of environmental factors as related to structure and function of plant communities. 3 lec, 4 lab, 1 Saturday field trip.

426 Physiological Plant Ecology (5)

Prereq: 425 or perm. (spring) *I. Ungar.* Analysis and interpretation of ecological problems. 3 lec, 4 lab, 1 Saturday field trip.

427 Molecular Genetics (3)

Prereq: 331 or 431 or BIOS 325; organic chemistry (spring, even years) *A. Showalter.* Genetic fine structure and function at the molecular level; biochemical aspects of heredity in micro-organisms, plants, and animals; recombinant DNA and genetic engineering. 3 lec.

431 Cell Biology (5)

Prereq: 111 or BIOS 171, 173. (fall) *J. Braselton, N. Cohn, J. Mitchell.* Structure and function of cells, organelles, and cellular inclusions. 3 lec, 4 lab.

432 Microtechnique (5)

Prereq: sr and perm. (upon sufficient demand) *J. Braselton.* Preparation of plant tissues for microscopic study. 6 lab.

450 Biotechnology and Genetic Engineering (4)

Prereq: 110 or BIOS 170, or perm. (spring, odd years) *A. Showalter.* For upper level undergraduate students. Introduction to basic molecular biological concepts and techniques in biotechnology and genetic engineering, including discussion of current experimentation and progress in these fields. 4 lec.

453 Developmental Physiology (4)

Prereq: 111. (spring, even years) *J. Mitchell.* Growth and development in flowering plants. Topics include cell growth and differentiation in developing meristems; tissue and organ development in culture; dormancy and germination; flower induction; seed formation; growth regulators; and senescence. 4 lec.

460 Paleobotany (6)

Prereq: perm. (spring, alternate years) *G. Rothwell.* Morphology and evolution of representative fossil plant groups. 3 lec, 6 lab.

475 Plant Speciation and Evolution (3)

Prereq: jr or sr majors in biology. (winter) *R. Lloyd.* Discussion of the principles of evolution of plants and current topics in evolutionary biology. 3 lec.

497T Plant Biology Tutorial (1-15)

Prereq: Tutorial college and perm. (fall)

498T Plant Biology Tutorial (1-15)

Prereq: Tutorial college and perm. (winter)

499T Plant Biology Tutorial (1-15)

Prereq: Tutorial college and perm. (spring)

Film (FILM)**201 Introduction to Film I (4) (2H)**

Prereq: soph. (fall) Studies in the history of world cinema, from 1895 to the present. Weekly screenings of silent and sound, American and international films.

202 Introduction to Film II (4) (2H)

Prereq: soph. (winter) Introduction to film analysis, with emphasis on formal aspects of film art such as sound, lighting, mise-en-scene, etc. Weekly screenings.

203 Introduction to Film III (4) (2H)

Prereq: soph. (spring) Special topics in film styles, genres, movements, and forms. Weekly screenings.

338 Studies in the Documentary Film (3)

Prereq: 203. (winter) Special topics in the history, theory, and criticism of documentary film and video. Weekly screenings.

340 Film Techniques (4)

Prereq: 201. Introduction to motion picture production techniques. Students will design, shoot, and edit their own projects.

341 Advanced Super-8 Production (4)

Prereq: 340 or perm. Advanced workshop in super-8 production for students working on independent film projects.

343 Scriptwriting (4)

Prereq: 201 or 202. Introduction to craft of developing narrative screenplay. Workshop/tutorial approach to study of screenplay structure, format, dialogue, and theory culminating in a 20-30 minute completed script.

344J The Practice of Film Criticism (4) (1J)

Prereq: 201 or 202. Survey of film criticism examining styles and techniques of established film critics. Students assigned series of exercises in critical writing. Meets junior-level English requirement.

361 Motion Picture Production I (5)

Prereq: 340 and perm. (fall) Professional 16mm film production. Instruction in basic camera and lighting technique, elementary film structure, and bench editing leading to production of individual silent film projects.

362 Motion Picture Production II (5)

Prereq: 361 and perm. (winter) Continuation of 361 introducing sound motion picture shooting and editing techniques, A and B roll preparation.

363 Motion Picture Production III (5)

Prereq: 362 and perm. (spring) Continuation of 362. Advanced sound motion picture production techniques.

421 International Cinema I (4)

Prereq: 201 or perm. Analysis of the relationship between film and culture, with emphasis on how cultural meanings influence film aesthetics and the critical assessment of the medium. Films of several filmmaking nations such as Brazil, China, India, Sweden, and the United States will be screened for study.

422 International Cinema II (4)

Prereq: 201 or perm. The development of a nation's or cultural region's films is traced, with emphasis on contemporary works. Cultures under study will vary quarterly and may include the films of Brazil, China, Germany, Eastern Europe, Italy, Southeast Asia, etc.

423 International Cinema III (4)

Prereq: 201 or perm. The aesthetics and uses of film and related technologies in the study of both Western and non-Western peoples is studied, with emphasis on the ethnographic and documentary film. Assignments include field exercises with image-making equipment.

431 Film History I (4)

Prereq: 201, 202, or perm. (fall) Advanced study of the history and historiography of the motion picture. Emphasis on alternatives to the film canon and revisionist approaches to film history. Weekly screenings.

432 Film History II (4)

Prereq: 201, 202, or perm. (winter) Studies in the history of international silent and sound documentary film. Weekly screenings.

433 Film History III (4)

Prereq: 201, 202, or perm. Studies in the history of international silent and sound experimental film. Weekly screenings.

451 Film Theory and Criticism I (4)

Prereq: 203 or perm. (fall) Introductory survey of classical and contemporary approaches to film theory and criticism. Weekly screenings.

452 Film Theory and Criticism II (4)

Prereq: 451 or perm. (winter) Advanced study of classical and contemporary approaches to film theory and criticism. Weekly screenings.

453 Film Theory and Criticism III (4)

Prereq: 452 or perm. (spring) Special topics in film

theory and criticism, including auteurism, structuralism, formalism, and feminism. Weekly screenings.

471 Film Topics Seminar (1-5)

Prereq: perm. (fall) Investigation of selected motion picture topic announced in advance of registration. Focus may be scholarly/critical, industry related, or aspect of motion picture production or screenwriting. Topics and credit hours vary.

472 Film Topics Seminar (1-5)

Prereq: perm. (winter) See 471 for description.

473 Film Topics Seminar (1-5)

Prereq: perm. (spring) See 471 for description.

480 Individual Production Problems (1-5)

Prereq: perm. Individual production of motion picture. May be repeated.

481 Individual Readings (1-5)

Prereq: perm. Readings and reports on works related to motion pictures. Reading list is selected by student in consultation with faculty member. May be repeated.

482 Independent Study (1-5, max 10)

Prereq: perm. Advanced individual creative or scholarly work in film.

Finance (FIN)

The finance major prepares professionals who are concerned with development and utilization of funds for economic and social purposes.

Coursework is available in the fields of financial management, commercial banking, financial institutions, security markets, and risk and insurance.

In addition to the B.B.A. degree requirements, a student majoring in finance must complete 24 hours of finance courses at the 300 or 400 level including 341.

102 Personal Money Management (4)

Prereq: fr/soph only. How to live better financially. Relation of personal goals to money management in terms of expenditures, savings, and tax considerations. Financial media that serve the individual such as life insurance, savings, securities, and consumer and mortgage credit.

301 Introduction to Finance (4)

Prereq: not open to fr or soph or those who have taken 102 or to B.B.A. students. Problems in managing personal finances. Budgeting expenditures and savings. Planning life insurance program, investment in savings accounts, securities, and other financial assets. Use of consumer and mortgage credit. Personal taxes.

325 Managerial Finance (4)

Prereq: ACCT 202, QBA 201, or PSY 121 or ECON 381 or INCO 301 or GEOG 271, jr. Role of financial management in business enterprise; financial analysis; planning needs for short-term and long-term funds; planning for profits; capital budgeting; internal management of working capital and income; raising funds to finance growth of business enterprises.

327 Banking and the Financial System (4)

Prereq: 325 and jr and perm. Functioning of commercial banking system and other financial institutions. Flow of funds and interest-price movements in money and capital markets. Supply of loanable funds and demand for funds in mortgage loan market, consumer credit market, corporate securities markets, and markets for government securities and municipal obligations. Consideration of effects on financial markets of Federal Reserve and Treasury policies.

331 Risk and Insurance (4)

Prereq: jr and perm. Social importance of risk and its place in personal, business, and national life, including principles and methods of handling risk. Special interest in technique of insurance.

341 Investments (4)

Prereq: 325; jr and perm. Principles in determination of investment media for individual and institutional portfolios. Sources of investment information, analysis of financial statements, investment risks and yields. Securities markets and their behavior.

428 Management of Financial Institutions (4)

Prereq: 327 or perm. Analysis of objectives, functions, practices, and problems of financial institutions as viewed by management of these institutions.

436 Life Insurance (4)

Prereq: 331 and perm. Fundamental economics of life insurance. Principles and practices of life insurance including types of contracts, group and industrial insurance, and annuities.

444 Futures, Markets, and Institutions (4)

Prereq: 327 or perm. Description of futures markets, trading, and institutions. Text will be supplemented by current readings and futures trading simulations on the part of the students.

445 Portfolio Management (4)

Prereq: 341 and perm. Decision-making processes in management of individual and institutional securities portfolios. Theoretical foundations of portfolio selection and construction. Mode-building and other criteria applicable to selection, risk-return tradeoffs, revision and evaluation of portfolio performance. Applications of computer technology and other quantitative techniques to different aspects of portfolio management.

450 Credit and Lending Principles of Financial Institutions (4)

Prereq: 325. Provides examination of basic functions involved in supplying credit to borrowers by financial institutions. Organizational framework and division aspects of process studied. Significant policy issues and implications covered.

452 Small Business Finance (4)

Prereq: 325 and ACCT 218. Application of basic financial management techniques to small business environment (100 or fewer employees). Problems faced by persons who start small business and recommendations for alternative solutions to most commonly discovered problems. Micro view, nuts-and-bolts approach used throughout course, but consistent with broad macro overview set of company objectives.

453 Real Estate Finance (4)

Prereq: 325 and perm. Financial and investment analysis in purchase and sale of real properties, including single-family dwellings and income properties. Income and risk analysis in real estate investment. Instruments of real estate finance and institutional arrangements in mortgage markets. Government and mortgage markets. Flow of funds and credit conditions in mortgage markets.

455 International Finance (4)

Prereq: 325 or perm. Problems in international finance. Financing international trade and other transactions; foreign exchange market, exchange market, and exchange rates; international payments system. Foreign central banking and current developments in international financing cooperation.

461 Problems in Business Finance (4)

Prereq: 325 and perm. Case study of financial management in business enterprises. Planning current and long-run financial needs, profit planning, allocation of funds, raising funds, dividend policies, expansion and combination, recapitalization and reorganization.

463 Capital Allocation (4)

Prereq: 325 and perm. Planning capital outlays. Methods for ranking investment proposals. Theories of financial structure and cost of capital. Approaches to investment decisions under conditions of uncertainty.

465 Mathematical Analysis of Financial Decisions (4)

Prereq: 325 and perm. Application of quantitative methods to financial management, with special emphasis on systems approach to evaluating proposed financial decisions.

491 Seminar (3, 4, or 5)

Prereq: perm. Selected topics of current interest in finance area.

497 Independent Research (1-4)

Prereq: perm. Research in selected fields of finance under direction of faculty member.

498 Internship (1-4)

Prereq: perm.

Foreign Languages and Literatures

Department of Classical Languages

The Department of Classical Languages offers a variety of courses concerned with Greek and Roman antiquity. Courses listed with CLNG prefixes require no knowledge of Greek or Latin languages and use English translations to teach aspects of classical literature and cultures. CLAR courses are concerned with classical archaeology and have no language requirements. Greek (GK) and Latin (LAT) courses teach students to read ancient authors in the original languages.

The A.B. degree in classics includes 4 possible tracks, reflecting the range of interests in the field. Each track requires a different balance of study in classical languages (Greek and/or Latin) and classical civilization.

The requirements for the various tracks of the classics major are as follows:

Classics (Greek) [major code #BA5212]: 28 hours in Greek beyond GK 213; 24 additional hours, with a minimum of 12 from the Dept. of Classical Languages and the remainder from either departmental offerings and/or extradepartmental courses listed below. *

Classics (Latin) [major code #BA5211]: 28 hours in Latin beyond LAT 213; 24 additional hours, with a minimum of 12 from the Dept. of Classical Languages and the remainder from either departmental offerings and/or extradepartmental courses listed below. *

Classics (Greek and Latin) [major code #BA5213]:

a total of 40 hours in Greek and Latin beyond GK and LAT 213; 24 additional hours, with a minimum of 12 from the Dept. of Classical Languages and the remainder from either departmental offerings and/or extradepartmental courses listed below. *

Classics (Classical Civilization) [major code #BA5214]: completion of either the Greek or Latin sequence through 213; 36 hours from Dept. of Classical Languages, including a senior research project; 12 additional hours from either departmental offerings and/or extradepartmental courses listed below. *

The following minors are offered in classics:

Classics (Greek):

12 hours in Greek beyond GK 213; 12 additional hrs. from the Department of Classical Languages and/or extradepartmental courses listed below. *

Classics (Latin):

12 hours in Latin beyond LAT 213; 12 additional hrs. from the Department of Classical Languages and/or extradepartmental courses listed below. *

Classics (Classical Civilization):

completion of either the Greek or Latin sequence through 213; 24 additional hours, with a minimum of 12 from the Department of Classical Languages and the remainder from either departmental offerings and/or extradepartmental courses listed below. *

*The following courses count for Classical Civilization credit:

All CLNG courses

All CLAR courses

GK and LAT courses beyond the language requirement

Art History

AH 320	Greek Art
AH 321	Roman Art
AH 351	Ancient Architecture

History

HIST 328	The World of Aristophanes
HIST 329B	Ancient Greece
HIST 329C	Ancient Rome
HIST 331	The Ancient Greek Games

Humanities

HUM 107	Great Books
HUM 307	Great Books

Philosophy

PHIL 310	History of Western Philosophy
PHIL 418	Plato
PHIL 419	Aristotle

Political Science

POLS 371	Plato, Aristotle, and Premodern Political Thought
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Department of Linguistics

African, Asian, and Middle Eastern Languages are administered by the Department of Linguistics. A major in these languages is not offered. An undergraduate seeking a certificate in African or Asian studies may choose three quarters of an appropriate African or Asian language as part of the course requirements.

Department of Modern Languages

Germanic, Romance, and Slavic Languages are included in the offerings of the Department of Modern Languages. Majors are offered in French (major code #BA5221), German (major code #BA5222), and Spanish (major code #BA5225).

The major requirement for the A.B. degree in French or German is a minimum of 36 quarter hours beyond 213. In Spanish the requirement is 40 quarter hours beyond 213. Specific course requirements for French and German are 341, 342, 343, 348 or 349, 355, 356, and at least three courses at the 400 level which should include courses in both language and literature. Spanish majors must, in addition to these, complete course 354.

Spanish majors must take one of the following courses: 443, 444, 447, or 448 as part of the 400-level requirement. A modern languages major is not permitted to take courses in the major subject on the pass/fail basis. Should a student receive a D in a course required for the major, he or she must retake the course until at least a C is made. Majors are strongly urged to study abroad in one of the department's programs. Suggested electives for majors are classical languages, comparative literature, cultural anthropology, English, fine arts, history of the country in the student's major interest, and linguistics.

Requirements for the B.S. in education degree with a comprehensive program in a modern foreign language are stated in the College of Education section of this catalog. Students wishing to complete teacher certification requirements as A.B. degree candidates should obtain a brochure in the Department of Modern Languages, 220 Ellis Hall, for an explanation of the requirements. Prospective teachers are urged to spend at least one quarter in a country of their major language.

A minor requiring a minimum of 24 hours of language courses beyond 213 is offered in French, German, Russian, or Spanish. A grade of C or better must be received in a course for those hours to count toward a minor. There are no specific course requirements, but the student should observe prerequisites and course sequences. A student should consult the chair of the majors committee in modern languages to develop a minor.

A student who is being certified in one high school or special fields major can be certified in a language minor area (French, German, or Spanish) by completing 45 credit hours in the minor language, including: 341-342-343 (12 hours); one of 348, 349, 355, or 356 (4 hours); one of 437 or 439 (4 hours); and two or more hours of literary studies. Depending on the student's background, up to 24 hours of beginning and intermediate language (111-213) may be waived, with the waived hours noted on the student's transcript.

Language laboratory facilities include 90 student booths for audio work, 5 video booths, 15 computer stations, and 3 interactive video stations. Foreign-language television is received via satellite and available in the language lab or classrooms. Classrooms have speakers connected to a central console capable of piping in recorded material.

The department has chapters of foreign language honoraries Delta Phi Alpha, Phi Sigma Iota, and Sigma Delta Pi. The following study abroad programs are available through the department: Austria: spring quarter in Salzburg offers beginning through advanced German. France: spring quarter in Tours offers courses in beginning through advanced French. Mexico: Portales—winter quarter in Merida offers intermediate Spanish and coursework in Latin American area studies.

For information on the honors tutorial programs in French and Spanish, see catalog section on the Honors Tutorial College.

African and Asian Literatures in English

Ohio University offers courses at both the undergraduate and graduate levels in the literatures of Africa and Asia. The Department of Linguistics teaches Southeast Asian literature and the Department of English teaches courses in African and Oriental literatures. Students wishing to fulfill requirements for the undergraduate certificate or the M.A. in either African or Southeast Asian studies should consult the departments concerned and the appropriate area studies director. (For description of the Southeast Asian literature courses, see index; for courses in African and Oriental literatures, see English Language and Literature in the Courses of Instruction section).

Arabic (Middle Eastern) (ARAB)

111 Elementary Arabic (4)

(fall) Beginning course of 3-qr 1st-yr sequence.

112 Elementary Arabic (4)

Prereq: 111 or equiv. (winter) Continuation of 111.

113 Elementary Arabic (4)

Prereq: 112 or equiv. (spring) Continuation of 112.

211 Intermediate Arabic (4) (2T)

Prereq: 113 or equiv. (fall) 1st course of 3-qr intermediate-level sequence.

212 Intermediate Arabic (4) (2T)

Prereq: 211 or equiv. (winter) Continuation of 211.

213 Intermediate Arabic (4) (2T)

Prereq: 212 or equiv. (spring) Continuation of 212.

Chinese (Asian) (CHIN)**111 Elementary Chinese (4)**

(fall) Beginning course of 3-qr 1st-yr sequence.

112 Elementary Chinese (4)

Prereq: 111 or equiv. (winter) Continuation of 111.

113 Elementary Chinese (4)

Prereq: 112 or equiv. (spring) Continuation of 112.

211 Intermediate Chinese (4) (2T)

Prereq: 113 or equiv. (fall) 1st course of 3-qr intermediate-level sequence.

212 Intermediate Chinese (4) (2T)

Prereq: 211 or equiv. (winter) Continuation of 211

213 Intermediate Chinese (4) (2T)

Prereq: 212 or equiv. (spring) Continuation of 212.

311 Advanced Chinese (4)

Prereq: 213 or equiv. (fall) Beginning of advanced-level sequence.

312 Advanced Chinese (4)

Prereq: 311 or equiv. (winter) Continuation of 311.

313 Advanced Chinese (4)

Prereq: 312 or equiv. (spring) Continuation of 312.

Classical Archaeology (CLAR)**201 Introduction to Archaeology—Egypt (5)**

Aims, methods, and techniques; general types of archaeological work and excavation. Open to students who have had 203 and/or 352, as well as beginners.

203 Introduction to Archaeology—Rome (5)

Similar to 201, but with emphasis on Roman sites and antiquities. Open to students who have had 201 and/or 352, as well as to beginners.

352 Archaeology of Greece (5)

Prereq: 18 hrs foreign language; or 12 hrs history or art history. Archaeology of Greece and Aegean Islands, with emphasis on Minoan and Mycenaean civilizations.

Classical Languages in English (CLNG)

The lectures and readings for these courses are in English, and the courses may count as part of the humanities area requirement of the College of Arts and Sciences. These courses cannot count as part of the foreign language requirement of the College of Arts and Sciences.

127 Greek and Latin Words in English (4) (2H)

General and technical vocabulary derived from Greek and Latin. No knowledge of Greek or Latin required. No credit toward meeting foreign language requirement.

234 Classical Mythology (4) (2H)

Introduction to classical mythology; readings and discussions of myths and their interpretations. No knowledge of Greek or Latin required. No credit toward meeting foreign language requirement.

235 Classical Literature in Translation (4) (2H)

Reading of Greek and Latin literature in English translation. May be counted as part of requirements for humanities of College of Arts and Sciences. No knowledge of Greek or Latin required. No credit toward meeting foreign language requirement.

236 Classical Literature in Translation (4) (2H)

Continuation of 235.

237 Classical Literature in Translation (4) (2H)

Continuation of 236.

301 Love in Antiquity (4)

Reading and discussion of major literary and philosophical treatments of love in Graeco-Roman tradition. All readings are in English translation. No knowledge of Greek or Latin required.

311 Gods and Heroes in Greek Epic (4)

A survey of the history, literature, and values of the Greek Heroic period: Mycenaean heroes (Achilles, Agamemnon, Ajax, Odysseus, Jason, etc.), and the Epic tradition (Homer, Hesiod, Apollonius) who passed on their stories to later generations of Greeks.

312 Greek Tragedy (4)

A survey of Greek tragedy in English translation: extensive reading from Aeschylus, Sophocles, and Euripides. Study of the historical and cultural setting and the literary aspect of the plays.

313 Greek Sophists and Orators (4)

An introduction to the new modes of oratory and argumentation which flourished in the context of fifth-century B.C. Greek democracy.

401 Life of the Romans (4)

An examination of Roman life from a number of perspectives emphasizing the Roman family, sexual attitudes, slavery, and the economy. Attention given to the means by which classicists draw conclusions about ancient Roman life and social attitudes.

498 Independent Study in Classical Literature (1-8, max 8)

Prereq: perm. Directed individual reading and research.

Foreign Literatures in English (FLT)

The lectures and readings for these courses are in English and are aimed at the entire University community. While they are not to be counted for a major in a modern foreign language, these courses may be counted toward the humanities area requirement of the College of Arts and Sciences. No credit toward meeting the foreign language requirement.

334 Portuguese and Brazilian Literature in English (4)

Literature of Portugal or literature of Brazil in English translation. May be repeated for credit when subject changes.

335 Italian Literature in English (4) (2H)

Famous literary works of best Italian authors, presented in English. May be repeated for credit when subject changes.

336 Spanish Literature in English (4) (2H)

Topics may deal with either Spanish or Latin American literature. May be repeated for credit when topic changes.

337 French Literature in English (4) (2H)

Literary works by authors of French expression, read and discussed in English. May be repeated for credit when subject changes.

338A German Literature in English (4) (2H)

Survey of masterpieces of German literature, presented in English. May be repeated for credit when subject changes.

338B German Novel in English (4) (2H)

Introduction to major German, Swiss, and Austrian novelists in English translation.

339A Russian Literature in English (4)

Survey of Russian literature from beginnings to revolution, presented in English.

339B Soviet Literature in English (4)

Major developments of Russian literature from 1917 to present day.

French (FR)**111 Elementary French (4)**

Beginning course of 3-qr, 1st-yr sequence. Basic grammatical concepts and patterns. Emphasis on development of reading, listening comprehension, speaking, and writing skills. Basic text and workbook used. Lab required.

112 Elementary French (4)

Prereq: 111. Continuation of 111. Basic text, workbook, and readings used. Lab required.

113 Elementary French (4)

Prereq: 112. Continuation of 112. Basic text, workbook, and readings used. Lab required.

211 Intermediate French (4) (2H)

Prereq: 113 or 2 or 3 yrs h.s. French. 1st course of 3-qr intermediate-level sequence. Intensive review of grammar. Additional readings with discussion in French. Supplemental cultural material.

212 Intermediate French (4) (2H)

Prereq: 211 or perm. Continuation of 211.

213 Intermediate French (4) (2H)

Prereq: 212 or 4 yrs h.s. French. Reading and discussion of selected modern works. Completion of 213 fulfills foreign language requirement of College of Arts and Sciences.

298 Independent Study in French (1-2, max 6)

Prereq: 213 or perm. Reading and discussion of assigned materials (books, periodicals, films, tapes) on specific topics involving French language. Does not count toward major or minor. Does not satisfy language requirement.

341 Advanced Conversation and Composition (4)

Prereq: 213 or perm. Speaking and writing based on readings and assigned topics. Grammar review.

342 Advanced Conversation and Composition (4)

Prereq: 341 or perm. Continuation of 341.

343 Advanced Conversation and Composition (4)

Prereq: 342 or perm. Continuation of 342.

348 French Civilization and Culture (4)

Prereq: 213 or perm. (fall, winter) Social, political, and cultural history of France from Middle Ages to Revolution. Readings, discussions, class reports, and short papers.

349 French Civilization and Culture (4)

Prereq: 213 or perm. (spring) Continuation of 348, covering 1799 to present. France in the modern world.

355 Introduction to French Literature (4)

Prereq: 213. Reading and discussion of major French literary works from Middle Ages through 18th century.

356 Introduction to French Literature (4)

Prereq: 213. Extensive reading and discussion of major French literary works of 19th and 20th centuries.

415 French Literature of the Renaissance (4)

Prereq: 355 and 356. Major 16th-century poets, including Du Bellay and Ronsard.

416 French Literature of the Renaissance (4)

Prereq: 355 and 356. Major 16th-century prose writers, including Rabelais and Montaigne.

418 17th Century French Literature (4)

Prereq: 355 and 356. Works by numerous authors, including at least some of following: Descartes, Pascal, La Fayette, La Rochefoucauld, La Bruyère, La Fontaine, and Boileau.

419 17th Century French Literature (4)

Prereq: 355 and 356. Major plays of Corneille, Racine, and Molière.

423 18th Century (4)

Prereq: 355 and 356. French literature and thought in Age of Enlightenment.

424 18th Century (4)

Prereq: 355 and 356. Continuation of 423.

425 Romanticism (4)

Prereq: 355 and 356. Romanticism in drama, poetry, and fiction of 1st half of 19th century.

426 Realism and Naturalism (4)

Prereq: 355 and 356. Major fictional works of 19th century.

427 French Poetry in the Second Half of the 19th Century (4)

Prereq: 355 and 356. Poetry of Baudelaire, Verlaine, Rimbaud, Mallarmé, and others.

429 20th Century French Literature I (4)

Prereq: 355 and 356. French prose fiction before WWII.

431 20th Century French Literature II (4)

Prereq: 355 and 356. French prose fiction since WWII.

433 20th Century French Literature III (4)

Prereq: 355 and 356. French drama of the 20th century.

435 Proseminar (1-4, max 12)

Prereq: perm. Subject will vary. May be repeated when subject changes.

437 Applied Phonetics (4)

Prereq: 343 or perm. (fall) Systematic study of segmental and prosodic elements of French pronunciation including extensive oral practice.

439 Modern French Usage (4)

Prereq: 343 or perm. (winter) Fine points of grammar. Practice in composition and analysis of texts.

441 Stylistics (4)

Prereq: 343 or perm. (spring) Composition. Explication de texte. Translation of English into French. Study of French prosody.

498 Independent Study in French (1-2, max 4)

Prereq: 8 credits at 300 level or perm of dept chair. Directed individual readings, discussion, and reports in language at advanced level. Does not count toward 400-level hrs required for major. Maximum of 2 credits may count toward minor.

German (Germanic) (GER)**111 Elementary German (4)**

Introduction to pronunciation and basic grammar. Development of comprehension and speaking skills. Lab required. Beginning course of 3-qr 1st-yr sequence.

112 Elementary German (4)

Prereq: 111. Continuation of 111. Lab required.

113 Elementary German (4)

Prereq: 112. Continuation of 112. Continued development of skills of oral and written production and comprehension. Lab required.

211 Intermediate German (4) (2H)

Prereq: 113 or 2 or 3 yrs h.s. German. Continued development of listening comprehension, reading, writing, and speaking skills. Grammar review. Lab required. 1st course of 3-qr intermediate-level sequence.

212 Intermediate German (4) (2H)

Prereq: 211 or perm. Continuation of 211. Emphasis on discussion of modern texts. Continued development of listening comprehension and speaking and writing skills. Lab required.

213 Intermediate German (4) (2H)

Prereq: 212 or 4 yrs h.s. German. Modern German texts are read and form basis for discussions and written assignments. Completion of 213 fulfills foreign language requirement of College of Arts and Sciences.

235 German Drama on Stage (1-4)

(winter) Presentation of German drama on stage. Private coaching in pronunciation and inflection of German. Credit varies according to role of student. May be repeated for credit with perm.

298 Independent Study in German (1-2, max 6)

Prereq: 213 or perm. Reading and discussion of assigned materials (books, periodicals, films, tapes) on specific topics involving German language. Does not count toward major or minor. Does not satisfy language requirement.

341 Advanced Conversation and Composition (4)

Prereq: 213 or perm.

342 Advanced Conversation and Composition (4)

Prereq: 341 or perm.

343 Advanced Conversation and Composition (4)

Prereq: 342 or perm.

348 German Culture and Civilization (4)

Prereq: 213 or perm. (fall, winter) Historical, intellectual, and artistic aspects of German, Austrian, and Swiss culture from earliest times to present.

349 German Culture and Civilization (4)

Prereq: 213 or perm. (spring) Continuation of 348

355 Introduction to German Literature (4)

Prereq: 213 Study of major literary works, with emphasis on 18th and 19th centuries.

356 Introduction to German Literature (4)

Prereq: 213 Study of major literary works of 20th century

425 19th Century German Literature (4)

Prereq: 355 and 356.

426 19th Century German Literature (4)

Prereq: 355 and 356.

427 19th Century German Literature (4)

Prereq: 355 and 356.

429 20th Century German Literature (4)

Prereq: 355 and 356.

430 20th Century German Literature (4)

Prereq: 355 and 356.

431 20th Century German Literature (4)

Prereq: 355 and 356.

433 German Lyric Poetry (4)

Prereq: 355 and 356. Interpretative and critical study of German lyric poetry.

435 Proseminar (1-4, max 12)

Prereq: perm. Intensive analysis of major author, literary genre, or theme. When subject is changed, student may re-enroll.

437 Phonology (4)

Prereq: 343 or perm. (fall) Problems in description and teaching of German sound system. Training in phonetic and phonemic transcription. Pronunciation drills. Contrastive analysis.

439 Grammatical Structure (4)

Prereq: 343 or perm. (winter) Selected problems in analysis and classroom presentation of German morphology and syntax.

441 Stylistics (4)

Prereq: 343 or perm. (spring) Advanced writing and stylistic analysis. Practice in variety of nonfiction prose techniques.

447 Readings in German Literature from the 12th Through the 17th Centuries (4)

Prereq: 355 and 356. Literature of Courtly Period, Renaissance, and Reformation and Baroque.

448 Readings in German Literature from the 12th Through the 17th Centuries (4)

Prereq: 355 and 356. Continuation of 447.

453 The Age of Goethe (4)

Prereq: 355 and 356. Major works of Lessing, Schiller, and Goethe.

454 The Age of Goethe (4)

Prereq: 355 and 356. Continuation of 453. See 453 for description.

455 The Age of Goethe (4)

Prereq: 355 and 356. Continuation of 453 and 454. See 453 for description.

498 Independent Study in German (1-2, max 4)

Prereq: 8 credits at 300 level or perm of dept chair. Directed individual readings, discussion, and reports in language at advanced level. Does not count toward 400-level hrs required for major. Maximum of 2 credits may count toward minor.

Greek (GK)**111 Beginning Greek (4)**

Grammar, vocabulary, and reading of ancient Greek. Students will be introduced to Ionic, Attic, and Koine (New Testament) dialects.

112 Beginning Greek (4)

Prereq: 111. Continuation of 111. See 111 for description.

113 Beginning Greek (4)

Prereq: 112. Continuation of 111-112. See 111 for description.

211 Greek Prose and Poetry (4) (2H)

Prereq: 113. Review of language principles. Readings adapted to needs and interests.

212 Greek Prose and Poetry (4) (2H)

Prereq: 211. Continuation of 211. See 211 for description.

213 Greek Prose and Poetry (4) (2H)

Prereq: 212. Continuation of 211-212. See 211 for description.

311 Greek Epic Poets (4)

Readings in Greek from Homer and Hesiod.

312 Greek Tragedy (4)

Readings in Greek from Aeschylus, Sophocles, and/or Euripides.

313 Readings in Greek Intellectual History (4)

Readings in Greek from Plato, Thucydides, and/or the Sophists.

314 Greek Historians (4)

Readings in Greek from Herodotus and Thucydides.

315 Greek Comedy (4)

Readings in Greek from Aristophanes.

316 The Greek New Testament and the Milieu of Early Christianity (4)

Readings in Greek from the New Testament, the early Greek fathers, and/or non-Christian writers of interest for the study of early Christianity.

409 Advanced Greek Readings (2-4, max 18)

Prereq: 21 hrs. (on demand) Selections adapted to needs and interests.

Indonesian/Malaysian (Asian) (INDO)

111 Elementary Indonesian/Malaysian (4)
(fall) Beginning course of 3-qr 1st-yr sequence.

112 Elementary Indonesian/Malaysian (4)

Prereq: 111 or equiv. (winter) Continuation of 111.

113 Elementary Indonesian/Malaysian (4)

Prereq: 112 or equiv. (spring) Continuation of 112.

211 Intermediate Indonesian/Malaysian (4) (2T)

Prereq: 113 or equiv. (fall) 1st course of 3-qr intermediate-level sequence.

212 Intermediate Indonesian/Malaysian (4) (2T)

Prereq: 211 or equiv. (winter) Continuation of 211.

213 Intermediate Indonesian/Malaysian (4) (2T)

Prereq: 212 or equiv. (spring) Continuation of 212.

311 Advanced Indonesian/Malaysian (4)

Prereq: 213 or equiv. (fall) Beginning of advanced-level sequence.

312 Advanced Indonesian/Malaysian (4)

Prereq: 311 or equiv. (winter) Continuation of 311.

313 Advanced Indonesian/Malaysian (4)

Prereq: 312 or equiv. (spring) Continuation of 312.

499 Special Studies (1-3)

Independent study of topic of interest in Indonesian/Malaysian language or literature.

Italian (Romance) (ITAL)**111 Elementary Italian (4)**

(fall) Beginning course of 3-qr 1st-yr sequence.

112 Elementary Italian (4)

Prereq: 111 or equiv. (winter) Continuation of 111.

113 Elementary Italian (4)

Prereq: 112. (spring) Continuation of 112.

211 Intermediate Italian (4) (2H)

Prereq: 113 or 2-3 yrs h.s. Italian. (fall) 1st course of 3-qr intermediate-level sequence.

212 Intermediate Italian (4) (2H)

Prereq: 211 or perm. (winter) Continuation of 211.

213 Intermediate Italian (4) (2H)

Prereq: 212 or 4 yrs h.s. Italian. (spring) Completion of 213 fulfills foreign language requirement of College of Arts and Sciences.

298 Independent Study in Italian (1-2, max 6)

Prereq: 213 or perm. Reading and discussion of assigned materials (books, periodicals, films, tapes) on specific topics involving Italian language. Does not satisfy language requirement.

341 Advanced Conversation and Composition (4)

Prereq: 213 or perm. (fall)

342 Advanced Conversation and Composition (4)

Prereq: 341 or perm.

343 Advanced Conversation and Composition (4)

Prereq: 342 or perm.

348 Italian Civilization and Culture (4)

Prereq: 213 or perm. (winter) Historical and cultural development of Italy from Middle Ages to Renaissance.

349 Italian Civilization and Culture (4)

Prereq: 213 or perm. (spring) Continuation of 348, covering period from Renaissance to present.

355 Introduction to Italian Literature (4)

Prereq: 213 or perm.

356 Introduction to Italian Literature (4)

Prereq: 213 or perm.

Japanese (Asian) (JAPN)**111 Elementary Japanese (4)**

(fall) Beginning course of 3-qtr 1st-yr sequence.

112 Elementary Japanese (4)

Prereq: 111 or equiv. (winter) Continuation of 111.

113 Elementary Japanese (4)

Prereq: 112 or equiv. (spring) Continuation of 112.

211 Intermediate Japanese (4) (2T)

Prereq: 113 or equiv. (fall) 1st course of 3-qtr intermediate-level sequence.

212 Intermediate Japanese (4) (2T)

Prereq: 211 or equiv. (winter) Continuation of 211.

213 Intermediate Japanese (4) (2T)

Prereq: 212 or equiv. (spring) Continuation of 212.

250 Japanese Language and Culture (4) (2T)

(spring) Introduction to cultural traditions of Japan and its language. English translations are used.

311 Advanced Japanese (4)

Prereq: 213 or equiv. (fall) Beginning of advanced-level sequence.

312 Advanced Japanese (4)

Prereq: 311 or equiv. (winter) Continuation of 311.

313 Advanced Japanese (4)

Prereq: 312 or equiv. (spring) Continuation of 312.

Latin (LAT)**111 Beginning Latin (4)**

Grammar, vocabulary, and reading.

112 Beginning Latin (4)

Prereq: 111. Continuation of 111. See 111 for description.

113 Beginning Latin (4)

Prereq: 112. Continuation of 111-112. See 111 for description.

211 Intermediate Latin (4)

Prereq: 113 or 2-3 yrs h.s. Latin. Review of h.s. Latin with reading of essay prose.

212 Intermediate Latin (4)

Prereq: 211. Continuation of 211. Reading of Vergil.

213 Intermediate Latin (4)

Prereq: 212. Continuation of 211-212. See 212 for description.

351 Latin Prose and Poetry (4)

Prereq: 213 or 4 yrs h.s. Latin, or 3 yrs h.s. Latin and perm. Review of essential Latin. Reading of Cicero's essays, play of Plautus or Terence, Horace's Odes and Epodes.

352 Latin Prose and Poetry (4)

Prereq: 213 or 4 yrs h.s. Latin, or 3 yrs h.s. Latin and perm. Continuation of 351. See 351 for description.

353 Latin Prose and Poetry (4)

Prereq: 213 or 4 yrs h.s. Latin, or 3 yrs h.s. Latin and perm. Continuation of 351-352. See 351 for description.

364 The Teaching of High School Latin (4)

Prereq: 213. (on demand) Content and methods of teaching h.s. Latin courses.

411 Latin Literature of the Republic (4)

Prereq: 353. Selections from works of Plautus, Terence, Caesar, Cicero, Lucretius, Catullus, and Sallust.

412 Latin Literature of the Republic (4)

Prereq: 353. Continuation of 411. See 411 for description.

413 Latin Literature of the Republic (4)

Prereq: 353. Continuation of 411-412. See 411 for description.

415 Latin Literature of the Early Empire (4)

Prereq: 353. Selections from works of Vergil, Horace, Livy, Ovid, Martial, Tacitus, Juvenal, and Pliny the Younger.

416 Latin Literature of the Early Empire (4)

Prereq: 353. Continuation of 415. See 415 for description.

417 Latin Literature of the Early Empire (4)

Prereq: 353. Continuation of 415-416. See 415 for description.

419 Readings in Latin Literature (4)

Prereq: 353. Selections complement students' other readings in Latin literature.

420 Readings in Latin Literature (4)

Prereq: 353. Continuation of 419. See 419 for description.

421 Readings in Latin Literature (4)

Prereq: 353. Continuation of 419-420. See 419 for description.

433 Advanced Latin Syntax (4)

Prereq: 353. Writing of Latin prose.

440 Special Work in Latin (1-6, max 12)

Prereq: 353. (on demand) Specialized work in selected phases of classical study.

Modern Languages (Introductory Culture and Civilization; Professional Courses) (ML)

Note: 250A-C, 410, and 445 do not count toward the major. With departmental approval 250A-C may be applied to the Arts and Sciences humanities requirement.

250A Field Studies in Austria (1-4, max 4)

Prereq: perm. Designed to introduce participants in study abroad program to various aspects of life in target country.

250B Field Studies in France (1-4, max 4)

Prereq: perm. See 250A for course description.

250C Field Studies in Mexico (1-4, max 4)

Prereq: perm. See 250A for course description.

321J Writing in Two Languages (4) (1J)

Prereq: jr, fr comp, FR 213 or equiv. Course designed for the English-speaking student with two or more years of French (or course-specific language) who would like to improve his or her English writing skills using a comparative language approach.

370J Translation as Writing (4) (1J)

Prereq: fr comp, jr, 213 FL or Non-nat. An introduction to the practice and theory of translation into English with special emphasis on translation as a form of writing/composition. Analysis and discussion of good writing and of the students' own translations and compositions.

410 The Language Laboratory: Media in Foreign Language Teaching (3)

Prereq: foreign language courses numbered 213 or courses in linguistics. Use of language lab and associated media as correlated with modern language classroom; instruction in selection, preparation, and use of instructional materials and tests, and in successful operation of lab and classroom equipment. Required of majors who plan to teach.

445 Teaching of Modern Foreign Languages (3)

Prereq: perm. Not to be counted as hours above 200 for A.B. degree. Study, demonstration, and use of methods and materials for effective modern foreign language instruction. Required of majors who plan to teach.

Russian (Slavic) (RUS)**111 Elementary Russian (4)**

(fall) Beginning course of 3-qtr 1st-yr sequence.

112 Elementary Russian (4)

Prereq: 111. (winter) Continuation of 111.

113 Elementary Russian (4)

Prereq: 112. (spring) Continuation of 112.

211 Intermediate Russian (4) (2H)

Prereq: 113 or 2-3 yrs h.s. Russian. (fall) Continued language study. Review of grammar. 1st course of 3-qtr intermediate-level sequence.

212 Intermediate Russian (4) (2H)

Prereq: 211 or perm. (winter) Continuation of 211. Extensive reading, writing, and oral practice.

213 Intermediate Russian (4) (2H)

Prereq: 212 or 4 yrs h.s. Russian. (spring) Accelerated reading, writing, and oral practice. Completion of 213 fulfills foreign language requirement of College of Arts and Sciences.

298 Independent Study in Russian (1-2, max 6)

Prereq: 213 or perm. Reading and discussion of assigned materials (books, periodicals, films, tapes) on specific topics involving Russian language. Does not count toward minor. Does not satisfy language requirement.

341 Advanced Conversation and Composition (4)

Prereq: 213 or perm. (fall)

342 Advanced Conversation and Composition (4)

Prereq: 341 or perm. (winter)

343 Advanced Conversation and Composition (4)

Prereq: 342 or perm. (spring)

348 The Cultural History of Russia (4)

Prereq: 213 or perm. Cultural development of Russia from the 10th to the 17th centuries. Readings and lectures in Russian.

349 The Cultural History of Russia (4)

Prereq: 213 or perm. Continuation of 348. Cultural movements in Russia from the 18th century to the present day. Readings and lectures in Russian.

355 Introduction to Russian Literature (4)

Prereq: 213 or perm. Introduction to literary terms. 19th-century literary movements and authors. Reading and lectures in Russian.

356 Introduction to Russian Literature (4)

Prereq: 213 or perm. 20th-century developments in Russian literature. Reading and lectures in Russian.

397 Introduction to the History of the Russian Language (3)

Prereq: 213 or 4 yrs h.s. Russian. (spring) Russian phonology, morphology, and syntax from Common Slavic to present. East, West, and South Slavic languages.

498 Independent Study in Russian (1-2, max 4)

Prereq: 8 cr at the 300 level or perm. Directed individual readings, discussion, and reports at the advanced level. Does not count toward minor.

Southeast Asian Literatures in Translation (INDO)

340 Traditional Literature of Southeast Asia (3)
(fall) Survey of traditional literature of Southeast Asia in translation.

345 Modern Literature of Southeast Asia (3)
(winter) Survey of modern literature of Southeast Asia in translation.

Spanish (Romance) (SPAN)**111 Elementary Spanish (4)**

Development of comprehension, speaking, and reading skills. Basic grammar. Lab required. Beginning course of 3-qtr 1st-yr sequence.

112 Elementary Spanish (4)

Prereq: 111. Continuation of 111.

113 Elementary Spanish (4)

Prereq: 112. Continuation of 112.

211 Intermediate Spanish (4) (2T)

Prereq: 113 or 2-3 yrs h.s. Spanish. Intensive review of grammar. Additional readings and discussion in Spanish. Supplemental cultural material. Lab requirements may vary. 1st course of 3-qtr intermediate-level sequence.

212 Intermediate Spanish (4) (2T)

Prereq: 211 or perm. Continued review. Additional literary readings with discussion in Spanish.

213 Intermediate Spanish (4) (2T)

Prereq: 212 or 4 yrs h.s. Spanish. Selected readings of 20th-century Spanish dramatists, poets, novelists, and essayists with discussion in Spanish. Completion of 213 fulfills foreign language requirement of College of Arts and Sciences.

298 Independent Study in Spanish (1-2, max 6)
Prereq: 213 or perm. Reading and discussion of assigned materials (books, periodicals, films, tapes) on specific topics involving Spanish language. Does not count toward major or minor. Does not satisfy language requirement.

341 Advanced Conversation and Composition (4)
Prereq: 213 or perm. Conversation based on assigned topics. Writing of short compositions which are also discussed in class.

342 Advanced Conversation and Composition (4)
Prereq: 341 or perm. Continuation of speaking with more emphasis on writing skills.

343 Advanced Conversation and Composition (4)
Prereq: 342 or perm. Emphasis on writing.

348 Spanish Civilization and Culture (4)
Prereq: 213 or perm. (fall, winter) Survey of Spanish civilization and culture.

349 Spanish American Civilization and Culture (4) (2T)

Prereq: 213 or perm. (spring) Survey of Spanish American civilization and culture.

350 Mexican Civilization and Culture (4)

Prereq: 213. Study of Mexican life, language, art, and their regional variation.

351 Mayan Civilization and Culture (4)

Prereq: 213. Examination of Mayan civilization of yesterday and today, with emphasis on its continuing presence in Yucatan.

354 Introduction to Spanish Literature (4)

Prereq: 213. Selected Spanish and Spanish-American plays. Historical developments and movements in Hispanic theater. Terminology. Readings, lectures, and discussion.

355 Introduction to Spanish Literature (4)

Prereq: 213. Selected Spanish and Spanish-American novels and shorter fiction. Historical developments and movements in Hispanic narrative form. Terminology. Readings, lectures, and discussion.

356 Introduction to Spanish Literature (4)

Prereq: 213. Selected Spanish and Spanish-American poetry. Historical developments and tendencies in Hispanic verse. Movements and terminology. Readings, lectures, and discussion.

361 Understanding Spoken Spanish (4)

Prereq: 213. Designed to increase students' understanding of spoken Spanish through exposure to and practice with recorded oral materials. Students work with distinct language varieties including dialect variants, commercials, songs, jokes, and broadcasts. Strategies for developing listening skills are presented.

425 19th Century Spanish Literature (1800-1850) (4)

Prereq: 354, 355 and 356. Romanticism, costumbrismo, and other movements in drama, essay, and poetry.

427 19th Century Spanish Literature (1850-1900) (4)

Prereq: 354, 355 and 356. Evolution of the novel in 19th-century Spain, including novels selected from the work of the following: Valera, Pereda, Galdos, Alas, Pardo Bazan, Blasco Ibanez.

429 Generation of '98 (4)

Prereq: 354, 355 and 356. Representative works by early 20th-century Spanish writers, including at least some of the following: Azorin, Baroja, Valle-Inclan, A. Machado, Perez de Ayala, Ortega y Gasset, and Juan Ramon Jimenez.

432 20th Century Spanish Literature (4)

Prereq: 354, 355 and 356. Study of poetry, novel, and drama in Spain since 1925, including works by at least some of the following writers: Lorca, Salinas, Guillen, Alexandre, Bontoro, Valente, A. Gonzalez, Buero, Cela, Delibes, Martin-Santos, J. Goytisolo, Martin Gaité.

435 Proseminar (1-4, max 12)

Prereq: perm. Subject will vary. May be repeated when subject changes.

437 Applied Phonetics (4)

Prereq: 343 or perm. (fall) Systematic description of the sound system of Spanish.

439 Modern Spanish Usage (4)

Prereq: 343 or perm. The grammatical structure of modern Spanish.

441 Stylistics (4)

Prereq: 343 or perm. Analysis of literary styles and study of techniques used to acquire correct style in writing Spanish.

443 Survey of Spanish American Literature (4)

Prereq: perm. Main movements of Spanish American literature from colonial period to Modernismo.

444 Survey of Spanish American Literature (4)

Prereq: perm. Continuation of 443. Main movements of Spanish American literature from Modernismo to contemporary period.

447 Themes from Spanish American Prose (4)

Prereq: perm.

448 Contemporary Spanish American Literature (4)

Prereq: perm.

453 Drama of the Golden Age (4)

Prereq: perm. Works by Lope de Vega, Calderon de la Barca, Tirso de Molina, Juan Ruiz de Alarcon, and related dramatists.

455 Novel of the Golden Age (4)

Prereq: perm. Picaresque novel, Cervantes' Novelas Ejemplares, and other examples of the novel from this period.

458 Don Quijote de la Mancha (4)

Prereq: perm. Intensive study of Part One and Part Two of Spain's greatest novel.

498 Independent Study in Spanish (1-2, max 4)

Prereq: 8 credits at 300 level or perm. Directed individual readings, discussion, and reports in language at advanced level. Does not count toward 400-level hrs required for major. Maximum of 2 credits may count toward minor.

Swahili (African) (SWAH)

111 Elementary Swahili (4)

(fall) Beginning course of 3-qr 1st-yr sequence.

112 Elementary Swahili (4)

Prereq: 111 or equiv. (winter) Continuation of 111.

113 Elementary Swahili (4)

Prereq: 112 or equiv. (spring) Continuation of 112.

211 Intermediate Swahili (4) (2T)

Prereq: 113 or equiv. (fall) 1st course of 3-qr intermediate-level sequence.

212 Intermediate Swahili (4) (2T)

Prereq: 211 or equiv. (winter) Continuation of 211.

213 Intermediate Swahili (4) (2T)

Prereq: 212 or equiv. (spring) Continuation of 212.

250 Swahili Language and Culture (4) (2T)

(spring) Introduction to cultural traditions of Japan and its language. English translations are used.

311 Advanced Swahili (4)

Prereq: 213 or equiv. (fall) Beginning of advanced-level sequence.

312 Advanced Swahili (4)

Prereq: 311 or equiv. (winter) Continuation of 311.

313 Advanced Swahili (4)

Prereq: 312 or equiv. (spring) Continuation of 312.

French

See Foreign Languages and Literatures.

Geography (GEOG)

(Major code #BS4231, BA4231)

The requirements for geography majors studying for the A.B. or B.S. degrees are a minimum of 55 quarter hours of approved geography courses including GEOG 101, 121, one regional, 271 (471 or 475 may be substituted), one technique, 481, and at least 30 hours at the 300 level or above. (Regional courses include 131, 132, 232, 233, 234, 330, 331, 332, 335, 338. Technique courses include 260, 360, 361, 365, 466, 468, 476.)

Majors are not permitted to take geography and required courses pass/fail.

Students wishing to pursue the B.S. degree must obtain a strong background in math, computer science, and the natural sciences. The selection of specific courses will depend upon the student's interest and advice of the faculty advisor.

A minor in geography will consist of a minimum of 28 hours including GEOG 101, 121, and at least three other courses at the 300 level or above.

101 Physical Geography (5) (2N)

Systematic survey of temperature, precipitation, atmospheric and oceanic circulation, and global systems of climate, soils, natural vegetation, and landforms. 4 lec, one 2-hr lab.

121 Human Geography (4) (2S)

Examination of spatial dimensions of culture, emphasizing patterns of selected cultural elements—language, religion, population, settlement, political and economic landscapes, and human/environment interactions.

131 World Regional Geography: Third World (4) (2T)

Survey of selected geographic themes: development; people and resources; human and physical environments; and cultural patterns in Latin America, Africa, the Middle East, and Asia.

132 World Regional Geography: Industrial World (4) (2S)

Survey of selected geographic themes: development; people and resources; human and physical environments; and cultural patterns in Anglo-America, Western and Eastern Europe, the former U.S.S.R., Japan, and Australia.

201 Environmental Geography (4) (2A)

Geographic survey of environmental changes caused by human activities. Focus on resource availability and use, pollution of air, water, and biosphere, energy problems, interactions of humans with plant and animal communities.

220 Economic Geography (4) (2S)

Prereq: one course in GEOG, BUS, or ECON. A systematic survey of world patterns of economic activities, including agriculture, fishing, mining, manufacturing, and services industries, and the association of those patterns with demographic, social, and income characteristics of world regions.

232 Geography of Ohio (4)

Detailed regional study of physical geography of Ohio and its cultural landscapes, settlement patterns, and economic development.

233 Geography of Appalachia (4)

Topical and regional survey of Appalachia with emphasis on settlement and rural and urban land use. Examination of national role of Appalachia in coal production, problems of environmental degradation, conservation, and recreation.

234 Geography of the United States and Canada (4)

Regional survey of North America including topical treatment of physical and cultural elements and intensive study of smaller regions.

241 Global Issues in Environmental Geography (4)

Prereq: 201. An inquiry approach to environmental issues of global scope such as human population growth, energy production and consumption, climatic change, deforestation, species depletion, disposal of wastes. Examination of the sustainability of human and natural systems.

260 Maps (4) (2A)

Introduction to map reading, interpretation, and appreciation. Examination of scale, direction, distortion, projections, and the use of maps to show physical and cultural landscapes and as everyday means of communication. 3 lec, one 2-hr lab.

271 Introduction to Statistics in Geography (5)

Prereq: geography major. Introduction to quantitative analysis in geography. Use of spreadsheets and elementary statistical software packages as applied to geographic problems. 4 lec, one 2-hr lab.

302 Meteorology (5)

Prereq: 101. General survey of meteorology with focus on physical principles explaining weather change. 4 lec, one 2-hr lab.

303 Climatology (5)

Prereq: 302. Exchanges of energy and moisture and their significance to human utilization of the earth's surface. 4 lec, one 2-hr lab.

304 Observations in Meteorology and Forecasting (2, max 4)

Prereq: 101, 302. Lab experience in acquisition, measurement, and interpretation of meteorological parameters.

321 Population Geography (4)

Prereq: jr and 8 hrs GEOG. Systematic survey of world population problems including distribution, composition, fertility, mortality, density, age-sex structure, and impact of these on world population growth and resources.

322 Settlement Geography (4)

Prereq: jr and 8 hrs GEOG. Survey of American rural settlement and its European antecedents. Emphasis on the evolution and regional variation in property, field, fence, and road patterns on farmsteads and in small towns.

324 Industrial Geography (4)

Prereq: jr and 8 hrs GEOG. Industrial location. Theories of industrial location and factors explaining industrial activity especially as related to economic development.

325 Political Geography (4)

Prereq: 121 or perm. Systematic examination of basic approaches, historical development, special problems, and spatial concepts in political geography. Case studies emphasize nation-state.

326 Urban Geography (4)

Prereq: jr and 8 hrs GEOG. Study of internal patterns of urban areas of North America.

330 Geography of Western Europe (4)

Prereq: jr and 8 hrs GEOG. Topical survey of Europe with emphasis on the geographic and cultural historical factors that influenced landscape and regional patterns in the past and today.

331 Geography of Africa I (4)

Prereq: jr and 8 hrs GEOG. Systematic examination of four themes in African geography with special emphasis on problems of development.

332 Geography of Africa II (4)

Prereq: jr and 8 hrs GEOG. Regional survey of one or more of major areas of tropical Africa.

335 Latin America (4)

Prereq: jr and 8 hrs GEOG. Regional survey of Latin America with emphasis on problems of social and economic development.

338 Southeast Asia (4)

Prereq: jr and 8 hrs GEOG. Survey of physical geography, natural resources, population, food production, urbanism, and energy within selected regions.

344 Agricultural Ecosystems (4)

Prereq: jr and 8 hrs GEOG. Agricultural activity. A spatial perspective of ecological models, concepts, methods of data collection and analysis of agricultural systems of the industrial and developing worlds.

350 Land Use Planning (4)

Prereq: jr and 8 hrs GEOG. Survey of land use planning. Zoning, subdivision controls and modifications, rural land use, open space, state land use plans. Case studies from U.S. and Europe.

353 Environmental Planning (4)

Prereq: jr and 8 hrs GEOG. An introduction to the development, implementation, and operation of activities to guide landscape development. Emphasis on interaction between natural and social systems, methods of environmental analysis, and the evolution of environmental planning strategies.

360 Cartography (5)

Prereq: geog major. Introduction to basic design and principles of aesthetically pleasing maps, emphasizing legibility to map user. Pen and ink map construction ranging from simple compilation to scale reduction and multicolor composition. 3 lec, two 2-hr labs.

361 Statistical Cartography (5)

Prereq: 360. Cartographic techniques of representing quantitative data on maps. 3 lec, two 2-hr labs.

365 Remote Sensing I (4)

Prereq: jr and 8 hrs GEOG. Principles, techniques, and practice in visual interpretation of air photographic and remote sensing imagery. For geographers, geologists, military, community planners, resource managers, engineers. 4 lec, one 2-hr lab.

375J Library Research and Writing (4) (1J)

Prereq: perm. Research materials, methods of investigation, and presentation of geographic data.

405 Practicum in Meteorological Forecasting (2-10)

Prereq: 101, 302, 304. Lab experience in preparation and dissemination of meteorological forecasts.

407 Synoptic Meteorology (5)

Prereq: 405. The construction and analysis of meteorological models used in the prediction of meteorological phenomena.

411 Advanced Physical Geography (4)

Prereq: 101. Application of physical geographic principles to specific research problems.

427 American Rural Vernacular Architecture (4)

Prereq: jr and 8 hrs GEOG. Consideration of temporal and spatial characteristics of American rural vernacular buildings and importance of preserving ordinary structures.

440 Environmental Impact Analysis (4)

Prereq: jr and 8 hrs GEOG. Introduction to analytic techniques, legal responsibilities, and administrative procedures in evaluating environmental impacts of land use change. Practice in production of environmental impact statements and in documenting scientific research.

447 Resource Management (5)

Prereq: 241. Themes in contemporary resource management, methods of resource assessment and evaluation, and selected case studies in sustainable management of renewable resources. 4 lec, one 2-hr lab.

455 Evolution of Planning (4)

Prereq: jr and 8 hrs GEOG. Evolution of urban planning in U.S. during 19th and 20th centuries. Housing, parks, ideal communities, intellectual attitudes, zoning and subdivision case law, federal intervention, present programs.

466 Remote Sensing II (5)

Prereq: 260 and 271 or equiv. Application of computer-based statistical patterns recognition techniques to the digital analysis and classification of remotely-sensed imagery.

468 Automated Cartography (5)

Prereq: 360 or perm. Introduction to automated techniques for compiling and producing maps. Issues range from re-application of manual techniques in a computer environment to fully automated production and GIS.

471 Quantitative Methods (4)

Prereq: jr and 8 hrs GEOG. Systematic survey of methods of multivariate analysis used by geographers. Practice using statistical packages for personal computers.

475 Analysis of Geographic Systems (4)

Prereq: jr and 8 hrs GEOG. Introduction to the methods of systems analysis and modeling directed to the study of physical, human, and environmental processes and their interaction at regional and global scales.

476 Field Methods (5-9)

Prereq: jr and 8 hrs GEOG. Introduction to geographic field methods and techniques in rural and urban areas. Field mapping, data collection and record keeping, spatial sampling, interviewing, coding and visual recording, synthesis and reporting.

478 Geographic Information Systems (5)

Prereq: 260 and 271 or equiv. Introduction to the development and utilization of computer data base management systems for the capture, storage, and analytic manipulation of geographic data.

479 Advanced Geographic Information Systems (5)

Prereq: 260 and 271 or equiv. Directed readings and laboratory projects in the design, implementation, and application of geographic information systems in the spatial sciences. 3 lec, two 2-hr labs.

481 Senior Seminar (2)

Prereq: sr geog major. Selected topics.

485 Internship (max 15)

Prereq: upper division geog major. Provides qualifying students with credit for work-study experience in cartography, remote sensing, land use planning, resource management, and other fields of applied geography. Supervised by geography faculty and evaluated by on-the-job supervisor. Lengthy report culminates experience.

486 Practicum in Cartography and Remote Sensing (2-5)

Prereq: 360, 361, 466, jr geog major, and perm. Individualized undergraduate thesis-level work— theoretical or practical—in cartography and/or remote sensing.

490 Geographic Studies (1-5, max 5)

Prereq: perm, jr. Supervised studies in fundamentals of geographic research.

494 Field Problems (4)

Prereq: geog major or perm. (Spring) Fieldwork in Belize, involving 2-wk field trip in March followed by coursework in spring qtr. Surveying of tropical forest, savanna, and reef environments; local cultures; and archaeological sites. Research on field problem using standard geographic field methods.

Geological Sciences (GEOL)**(Major code #BS3321)**

Required courses for the B.S. degree in minimum preparation for a professional career in geological sciences or entry into graduate school are 101, 315, 320, 330, 340, 350, 360, 413, 422, 424, 456, 462, an approved field course, and at least two additional 400-level courses. The following extradepartmental courses also are required: CHEM 151, 152, 153; MATH *163A, 163B OR 263A, 263B, and 250B; PHYS *201, 202 OR 251, 252, 253 (203 may be required for some graduate programs).

The major requirement for the A.B. degree includes the following: 101, 221, 315, 320, 330, 340, 350, 360, 462; and at least two additional courses at the 400 level. Extradepartmental requirements include CHEM 121 and 122, PHYS 201, and MATH 115. Students entering the A.B. program should consult with the departmental undergraduate advisor regarding appropriate minors to be combined with the A.B. degree.

The Department of Geological Sciences also offers special professional programs in the fields of water resources and environmental geology. See Special Curricula in the College of Arts and Sciences section.

A minor in geological sciences requires a minimum of 25 hours of coursework in geological sciences to include 101 and a minimum of four courses at the 300 or 400 level.

*Students should discuss the selection of appropriate calculus and physics sequences with their departmental advisor.

101 Introduction to Geology (5) (2N)

Nature and distribution of earth materials and their utilization as natural resources; discussion of earth structure, earthquakes, mountain building, and continental drift; development of landscapes. 4 lec, 2 lab. Not open to students who have had 283.

120 The Mobile Earth (4) (2N)

An examination of the earth's dynamic systems including continental drift, sea-floor spreading, mountain building, volcanic activity, and earthquakes, and their explanation in terms of plate tectonic theory. Intended for both science and nonscience majors seeking a nontechnical overview of plate tectonics. 4 lec.

211 Introductory Oceanography (4) (2N)

Survey of physical, chemical, biological, and geological aspects of oceanography. 4 lec.

215 Environmental Geology (4) (2A)

Survey of geological aspects of environmental crisis. Focus on major environmental processes, immediate and extended influence of humans, and prospects for future of physical environment. Presupposes no background in sciences. 4 lec.

221 Earth and Life History (4) (2N)

T. Worsley. A nontechnical survey exploring the 4-1/2 billion year history of the interaction between life and the environment. Topics include the origin of the earth, the origin and development of life, the origin and evolution of the continents, the history of the atmosphere and ocean, catastrophic extinctions, and the impact of human evolution.

231 Water and Pollution (4) (2A)

M. Ahmad. The interrelationship between geologic and hydrologic principles and technology as they relate to the use of water resources and the environmental problems associated with its pollution.

270 World Mineral Resources (3)

Prereq: soph. G. Heien. Major deposits of metal, nonmetallic, and fuel resources which form backbone of modern industry. Economics and basic geologic controls of mineral production reviewed. 3 lec with demonstrations. Not open to geology majors.

283 Geology for Engineers (4)

(fall) D. Green. Geologic principles applied to engineering projects and materials. 3 lec, 2 lab. Not open to students who have had 101.

315 Mineralogy (4)

Prereq: 101, CHEM 152. (fall, spring) G. Heien. Crystallography, crystal chemistry, and mineralogy, emphasizing mineral identification and formation and association of minerals in different geologic environments. 2 lec, 4 lab.

320 Rocks (3)

Prereq: 315. (fall, winter) G. Heien. Characteristics and origin of igneous, sedimentary, and metamorphic rocks and their identification in hand specimens. 2 lec, 2 lab.

330 Principles of Geomorphology (5)

Prereq: 101. (fall, spring) G. Smith. Basic concepts of origin and development of landforms. Lab study of topographic maps and aerial photographs. 4 lec, 2 lab.

340 Principles of Invertebrate Paleontology (4)

Prereq: 101. (fall) R. Mapes. Invertebrate fossils emphasizing theory of their study, morphology, classification, and biologic relationships. 3 lec, 2 lab, field trip.

350 Stratigraphy-Sedimentology (4)

Prereq: 320. (spring) D. Kidder. Introduction to principles of stratigraphy and sedimentation. Interpretation of depositional environments and their relation to plate tectonic setting. 3 lec, 2 lab.

360 Structural Geology (5)

Prereq: 320. (fall) D. Nance. Principles of rock deformation and interpretation of folding and faulting and related topics. Field-oriented structural problems, structural maps, and use of stereographic projections. 4 lec, 2 lab, field trip.

407 Introduction to Remote Sensing (4)

Prereq: 330, 360. G. Smith. Principles of interpretation and analysis of satellite imagery in resolution of geologic problems. 2 lec, 4 lab.

413 Optical Mineralogy (4)

Prereq: 320 (or 320 concurrent). (fall) G. Heien. Optical characteristics of minerals and identification of minerals with the petrographic microscope. 2 lec, 4 lab.

422 Igneous and Metamorphic Petrology/Petrography (4)

Prereq: 413. (spring) G. Heien. Petrogenesis of igneous and metamorphic rocks and their identification in thin section. 2 lec, 4 lab.

424 Sedimentary Petrology/Petrography (3)

Prereq: 350, 413. (winter) D. Kidder. Petrogenesis of sedimentary rocks and their description and classification in hand specimen and thin section. 2 lec, 2 lab.

425 Diagenesis (4)

Prereq: 424. (spring) D. Kidder. Critical view of diagenetic principles using numerous examples. Many topics are selected from recent journal articles. Students read, present, and discuss current literature, as well as writing a term paper. 4 lec.

426 Principles of Geochemistry (4)

Prereq: 320. G. Heien. Principles of geochemistry emphasizing low temperature aqueous solutions of geologic interest, introduction to isotope geochemistry. 4 lec.

432 Origin and Classification of Soils (4)

Prereq: 330. G. Smith. Consideration of concept of soil and factors of soil formation, introduction to soil morphology and systems of soil classification, discussion of major soil groups of world and soils of Ohio. 3 lec, 2 lab, field work.

437 Depositional Environments (4)

Prereq: 350. (spring) D. Kidder. Advanced coverage of depositional processes and environments. Latter part of course focuses on global sedimentation and events. Students read, present, and discuss current literature, as well as writing a term paper. 4 lec.

438 Glacial Geology (4)

Prereq: 330. G. Smith. Formation and behavior of glaciers, past and present, consideration of glacial processes, and causes and implications of ice ages. 3 lec, 2 lab, field trips.

443 Advanced Invertebrate Paleontology (5)

Prereq: 340. (winter) R. Mapes. Study of selected groups in Phylum Mollusca with details of modern biology, environmental habitats, life modes, etc. applied to fossil record. 3 lec, 4 lab.

456 Earth Systems Evolution (4)

Prereq: 320, PHYS 201. (winter) T. Worsley. Synthesis of the coupled histories of the earth's interior, surface, and life. 3 lec, 2 lab.

462 Geodynamics: The Earth's Interior (4)

Prereq: 320. (spring) D. Green. Solid earth geophysics (gravity, magnetics, seismicity, heat flow) and internal structure, dynamics, and evolution of Earth's core, mantle, and crust.

464 Regional Tectonics (4)

Prereq: 360. (spring) D. Nance. Global tectonics and structure of continental cratons and margins, mid-ocean ridges, island arcs, and major orogenic belts. 4 lec.

470 Mineral Deposits (4)

Prereq: 320. G. Heien. Geologic and geochemical processes by which mineral deposits form, and their relationship to plate tectonics. 4 lec.

476 Subsurface Methods (4)

Prereq: PHYS 202 or 253. (winter) M. Ahmad. Resume of drilling, sampling, and logging by electric, radioactivity, temperature, neutron methods as applied to petroleum exploration, water, and engineering projects. 3 lec, 2 lab.

480 Hydrogeology I (4)

Prereq: MATH 1638 or 2638, PHYS 202 or 253, CHEM 153. (fall) M. Ahmad. Principles governing occurrence, movement, and recovery of water in soil and aquifers. Hydrologic cycle, water budget, hydrology of agriculture, watershed studies, water chemistry, and pollution. 3 lec, 2 lab.

481 Hydrogeology II (4)

Prereq: 480. (winter) M. Ahmad. Steady and unsteady flow to well, analysis of pumping test data, water well design, well development, interference of wells, and design of well fields. 3 lec, 2 lab.

482 Theory of Groundwater Motion (4)

Prereq: 481, MATH 340. (spring) M. Ahmad. Basic principles and fundamental equations; D.E. of groundwater motion, solution of boundary value problems for different types of aquifers. Analytical and numerical methods in subsurface hydrology with emphasis on finite difference method; digital model. 4 lec.

483 Field Hydrology (6)

Prereq: water resources background. (summer) M. Ahmad. Field training in techniques of hydrology and water resources evaluation. 3 wks.

485 Introduction to Applied Geophysics (4)

Prereq: PHYS 202 or 253. (fall) D. Green. Introductory course in environmental and geotechnical geophysics. Survey of applied geophysical methods including seismic, gravity, magnetic, electrical, and electromagnetic techniques. 3 lec, 2 lab.

486 Applied Seismology (4)

Prereq: 485. (spring) D. Green. Field methods and analysis techniques for seismic characterization of shallow subsurface, multichannel digital data acquisition, generalized reciprocal refraction and common offset refraction techniques as practiced in environmental and geotechnical industries. 4 lec.

490 Seminar in Geology (1-2)

Prereq: perm. Several seminars on specific topics in geological sciences will be offered yrly. It is recommended that all majors participate in at least 1 seminar.

491 Geologic Studies (1-6, max 12)

Prereq: perm. Staff. Individual or small group independent study arranged with faculty members.

German

See Foreign Languages and Literatures.

Gerontology

Undergraduate Certificate

The colleges of Arts and Sciences and Health and Human Services cosponsor a Gerontology Certificate Program for students who desire to supplement their undergraduate curriculum with a career in working with or for the elderly. This program is open to any undergraduate student in the University. See the College of Health and Human Services section of this catalog for further details.

Government

See Political Science.

Greek

See Foreign Languages and Literatures.

Hazardous Materials Technology (HMT)

The following courses for the A.A.S. in hazardous materials technology are available only on the Chillicothe campus.

100 Introduction to Handling Hazardous Materials (4)

Analysis of the issues relating to occupational, consumer, and environmental health and safety, viewed from a historical point of view as well as the current status. Students successfully completing this course will be certified at the First Responder Level (level 1).

110 Hazardous Materials Regulation I (4)

Study of events and legislation which shaped the Occupational Safety and Health Administration, the Department of Transportation, the Environmental Protection Agency, the Consumer Product Safety Commission, and other hazardous materials regulation. Students successfully completing this course will be certified at the First Responder Operations Level (level 2).

120 Hazard Communication Standard (3)

Emphasis on communication programs, their development and implementation, and their compliance with federal Hazard Communication Standard and "Right-to-Know" laws. Topics include Material Safety Data Sheets (MSDS), written programs, employee training, and labels and placarding.

130 Industrial Processes (3)

Generation of hazardous materials in such settings as electroplating, metal finishing, printed circuit board production, oil refining, chemical production, steel production, paper industry, and various other production areas. Emphasis on acute and chronic exposure. Hazardous materials handling and minimized waste generation will be covered.

140 Hazardous Materials Regulation II (4)

The Environmental Protection Agency (EPA) will be the major focus, including the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA); the Toxic Substance Control Act (TSCA); the Federal Insecticide, and Rodenticide Act (FIFRA); and other clean air, land, and water issues. Regulatory compliance is a major topic.

150 Emergency Response I (3)

Emphasizes the development of emergency response contingency plan for a facility. Includes analyzing the hazards, writing and implementing the contingency plans, training employees for an emergency, and the evaluation of the contingency plan.

200 Hazardous Materials Recovery, Incineration, and Disposal (4)

Directed toward the recovery, incineration, and/or disposal of hazardous waste. Topics include the contracting of qualified disposal organizations, obtaining permits, and ensuring compliance of hazardous waste. On- and off-site treatment technology and chemical and physical characteristics of hazardous materials and waste.

210 Hazardous Materials Regulation III (4)

Analysis of federal, state, and local regulations dealing with hazardous materials. Major focus on transportation regulations and emergency response regulations. The U.S. Department of Transportation management programs on hazardous materials regulations will be covered.

220 Hazardous Materials Health Effects (3)

Literature review of human health risks related to chemical exposures. A study of risk factors, types of chemical entry, effects on organs, acute and chronic effects, and measures to control exposure.

230 Emergency Response II (3)

Prereq: 150. Application of emergency response procedures under simulated emergency conditions. Practice in responding to the emergency, assessing the seriousness of the incident, supervision of cleanup, providing information to the public and media.

240 Hazardous Materials Testing (4)

Prereq: CHEM 121, 122. Utilization of hazardous materials testing equipment including portable and laboratory-based qualitative and quantitative analytical apparatus used in routine and emergency situations. Chemical analysis of hazardous waste materials.

Health and Human Services (HS)

102 HCOP Six-Week Skill Enrichment (5)

Prereq: HCOP student. Six-week prematriculation program for entering minority freshmen majoring in selected health-related programs. Skill enrichment in math, biology, composition, computer word processing, and study techniques through lecture and lab experiences. Clinical visits and observations at various health care facilities provide students with exposure to allied health professions.

309 Microcomputer Applications in the Health Sciences (4)

Prereq: Health and Human Services major or perm. Provides students with knowledge of and experience with microcomputer-based programs in word processing, data base management, and spreadsheet applications to solve problems often encountered in health-related areas. No credit awarded if CS 120 or MIS 100 has been taken.

Health Sciences

Environmental Health (EH)

260 Introduction to Environmental Health and Safety (4)

Prereq: soph. (spring) Survey of technical and administrative procedures needed to control the environment, especially as they relate to health effects encountered in daily activities. Emphasis on general ecological environmental protection and environmental degradation, along with safety concepts, practices, and procedures. 4 lec.

310 Water Supply and Wastewater Environmental Health Practice (4)

Prereq: 260. (fall) Examination of processes for the development of water resources, quantity and quality requirements, preventive control measures and treatment, collection of wastewaters, and treatment for disposal or reuse. Health implications of water quality management stressed. 3 lec, 2 lab.

312 Solid and Hazardous Waste Management (4)

Prereq: 260. (winter) Problems in and solutions to the storage, collection and disposal of hazardous and nonhazardous wastes with special emphasis on the planning and management aspects of designing, organizing, and operating refuse collection and disposal systems. 4 lec.

320 Shelter Environments (4)

Prereq: 260. (fall) Physiological and psychological aspects of exterior and interior environmental concerns. Emphasis on housing standards, building codes, vector control, separate concerns of urban and rural housing, migrant labor housing, mobile home construction, and mobile home park design. 4 lec.

330 Food Quality Control (4)

Prereq: 260, MICR 211/212 or perm. (fall) Emphasizes the topics of foodborne diseases and regulatory programs relative to sanitary inspection and control of food service and processing systems. 3 lec, 2 lab.

430 Vector Control and Pesticide Use (4)

Prereq: 260. (spring) Vectors responsible for rodent and anthropoid-borne diseases of medical and veterinary importance with special emphasis on human health and welfare implications. 3 lec, 2 lab.

440 Air Quality and Pollution Control (4)

Prereq: 260. (winter) Evaluating and monitoring air quality; effects of pollution control and lab procedures in air quality investigation. Special emphasis on air pollution's effects on human health and welfare. 3 lec, 2 lab.

450 Institutional Environmental Health Practice (4)

Prereq: 260. (winter) Emphasis on the institutional aspects of shelter as they relate to disease prevention and control within hospitals, nursing homes, day care centers, schools, and correctional facilities. 4 lec.

455 Recreational Environmental Health Practice (4)

Prereq: 260. (spring) Broad view of all major aspects that should be considered in the planning, development, and operation of recreational environments as they relate to proper environmental health protection. 4 lec.

457 Environmental Health Planning and Program Administration (4)

Prereq: 260. (fall) Provides knowledge and understanding of processes involved in the development and operations of environmental health programs. Focus on implementation, maintenance, and evaluation of regulatory programs, with emphasis on project management and planning. 4 lec.

464 Environmental Health Practicum (15)

Prereq: sr, perm, and major. Supervised learning experience in an approved clinical/environmental health facility designed to provide the student with practical comprehensive opportunities in environmental health to enhance and complement required classes.

490 Independent Study (1-5)

Prereq: major and perm.

Health Sciences (HLTH)

101 Introduction to Health and Human Services Professions (2)

Course examines various roles of health care professionals in health care delivery system, describes education and training program options, explores opportunities for employment, and introduces medical terminology. 2 lec.

105 Preventing Sexual Violence (4)

(fall, spring) Provides both male and female students with information about sexual violence, its different forms, frequencies, and impact. Students gain an understanding of cultural influences, offender and survivor characteristics, and support services. Information and skills directed at reducing students' likelihood of being involved in sexually offensive/violent situations. 4 lec.

202 Health Sciences and Lifestyle Choices (4) (2A)

Practices and appreciation of means whereby health of individual and group may be maintained. 4 lec.

204 Drugs, Alcohol, and Tobacco Education (4)

Presents basic pharmacology and toxicology of common drugs, alcohol, and tobacco and consequences of their abuse. 4 lec.

217 Introduction to Health Care Organizations (4)

Prereq: 202. Focuses on U.S. health system, describing health care institutions, providers, payment practices, and significant health legislation. Discusses trends and future perspectives against historical background. Assists manager to develop panoramic view of health care organizations. 4 lec.

225 Long-Term Care Administration I (4)

Prereq: MGT 200. (fall) Presents laws, regulations, and standards that impact long-term care facilities management. Discusses client rights and responsibilities and their implications in managing such facilities. Stresses ethical and moral issues confronting manager. Reviews risk management and strategies for providing safe and comfortable environment. 4 lec.

227 First Aid (3)

Presents the knowledge and skills of the American Red Cross Standard First Aid course including adult CPR. Certification granted upon successful completion. 2 lec, 2 lab.

228 Cardiopulmonary Resuscitation (1)

Presents the knowledge and skills of the American Red Cross Community CPR course, including instruction in adult, infant, and child skills. Certification granted upon successful completion. 1 lec.

230 Medical Terminology for Health Administrators (4)

Prereq: BIOL 101 or BIOS 103 or BIOS 170. (fall, spring) Medical terms associated with body systems, disease processes, laboratory tests, and clinical procedures commonly found in the health care setting. Emphasis on the development of appropriate administrative policies and procedures based on selective disease processes. 4 lec.

316 Human Resource Management and Training in Health Care (4)

(winter) Introduces students to the management and development of personnel within various health care settings. Examines and analyzes various human resource issues within the unique health care arena. 4 lec.

325 Long-Term Care Administration II (4)

Prereq: 225. (winter) Presents managerial ideologies important to manager of long-term care facilities. Fully develops role of administrator in planning, organizing, directing, controlling, and staffing for specific services of long-term care facilities within holistic framework for client care. Studies professional relationships and coordinating function of manager. Includes contributions of rehabilitation and recreation services to long-term care. 4 lec.

327 Instructor's First Aid (3)

Prereq: 227 or equiv. Presents all necessary information to conduct and implement an American Red Cross Standard First Aid course. Instructor certification granted upon successful completion. 1 lec, 4 lab.

328 CPR Instructor (2)

Prereq: 228. Presents all necessary information to conduct and implement an American Red Cross Community CPR course. Instructor certification granted upon successful completion. 1 lec, 2 lab.

330 Community Health Epidemiology (4)

Prereq: 202, jr. (spring) Use of epidemiology by community health providers to prevent health disorders and to plan for meeting the health needs of populations. Special focus on the use and interpretation of morbidity and mortality data in studying acute and chronic disorders. 4 lec.

335 Administration of Acute Care Facilities (4)

Prereq: jr. (winter, spring) Focuses on the understanding, skill, and ethical issues important to the management, organization, planning, financing, and evaluation of an acute health care facility and its services to patients. Emphasis on the administrator's role in an acute health care facility. 4 lec.

340 Contemporary Problems in Health Care Organizations (4)

Prereq: jr. (fall, winter) Identifies the major issues in the development and management of a wide range of health care programs and organizations. Provides exercises in the application of management skills necessary to confront the major changes and problems identified. 4 lec.

350 Independent Study (1-5)

Prereq: jr and perm. Study and/or research in selected topics of interest to students in health sciences.

364 Community Health Field Experience (1-5)

Prereq: 202, jr. Observation and participation in activities of community health agency or medical facility or program.

370J Writing for Health Sciences (4)(1J)

Prereq: jr or sr. Designed to improve the technical writing skills of students in health or health-related fields. Writing tasks are designed to provide students with experience in writing within the formats and subject areas of the field of study. 4 lec.

379 Teaching of Health (5)

Prereq: 202, jr. (fall, spring) Instruction, principles, and curricula used in presenting health information to pupils in elementary and secondary schools. 5 lec.

390 Community Health (4)

Prereq: 202, 204, jr. (fall, winter) Institutional frameworks for promoting and maintaining health of people of community, state, and nation. 4 lec.

405 Long-Term Care Administration III (4)

Prereq: 325. (spring) Deals with administrative processes, long-term care management. Orients student to modern information systems and use of data in managing decision action and record keeping. Prepares students on building effective public relations, managing volunteer programs, and in supporting client governance. Prepares student to sit for licensure exams. 4 lec.

413 Health Aspects of Aging (4)

Prereq: 202 or perm. (winter, spring) Theories of aging, changing changes in structure and performance, senescence, hereditary, acquired aging changes, aging, health, health promotion, and community health. 4 lec.

418A Instructional Experiences (1-3)

Prereq: perm. Supervised practice in organizing and teaching activities in college.

419 Health Education for the Elementary School (4)

Prereq: 202 or perm. (fall) Application of principles of curriculum development, identification of appropriate concepts and practices, and use of teaching methods and resources at elementary school level. 4 lec.

421 Financial Administration of Health Care Facilities (4)

Prereq: ACCT 201, sr. (fall, spring) Emphasis on the interpretation and application of accounting and financial concepts of health services with an introduction to strategic financial planning. 4 lec.

422 Reimbursement Payment Systems in Health Care Organizations (4)

Prereq: ACCT 201, sr. (winter) Analysis of reimbursement systems for acute care, long-term care, home care, and alternative care systems. Both current and projected systems will be examined. 4 lec.

425 Controlling Stress and Tension (2)

Prereq: 202 or perm. (fall, winter) Holistic approach to stress management covering recognition of tension, physiological response, relaxation techniques, and individual stress profile. 2 lec.

427 Health of Women (4)

Prereq: jr. The health needs and concerns of women within the physical, mental-emotional, and social dimensions of functioning are examined. Emphasis on women as health care and product consumers is provided. 4 lec.

430 Worksite Health Promotion (4)

Prereq: sr. (winter) Examination of worksite health promotion programs. Guidelines for development of health promotion programs in corporate settings discussed. 4 lec.

464 Community Health Services Practicum (15)

Prereq: 364, sr. Participation in activities of official or voluntary public health agency. Supervision of experience to be done by agency personnel and University faculty.

480 Practicum in Health Services Administration (10)

Prereq: perm. Provides a practical field experience in the operational skills necessary to manage a health care organization. The student works under the direct supervision of health care managers and carries out assigned tasks, which may include the direct provision of care, development of programs, maintenance of systems, and management of data.

481 Internship in Health Administration (15)

Prereq: perm, completion of coursework. Provides an administrative/programmatic experience under the direct supervision of an administrator in a health-related organization. Students complete supervised projects, plans, and other administrative tasks under the joint supervision of a health care facility administrator and a University faculty member.

490 Independent Study (1-5)

Prereq: jr or sr and perm. Allows for special study of topics of interest to students of health care programming and administration.

491A-F Special Topics Workshops (1-3)

Prereq: perm. (A) focuses on administrative practices and issues; (B) focuses on environmental and occupational health and safety; (C) focuses on legal aspects; (D) focuses on client-centered care programs; (E) focuses on team-building and interpersonal relationship skills; and (F) focuses on intercommunity relationships and consortia arrangements.

495 School Health Problems (5)

Prereq: sr. (fall) Principles, problems, organization, and administration of school health programs, including health services, healthful school environment, health instruction, and school and community relationships. 5 lec.

Industrial Hygiene (IH)**200 Introduction to Industrial Hygiene and Occupational Safety and Health (4)**

Prereq: IH major or perm. (fall) Introduction to occupational safety and health and industrial hygiene including historical developments, health and safety program concepts, social and legislative requirements, professional relationships, and general introduction to concepts of anticipation, recognition, evaluation, and control of exposures. 4 lec.

400 Industrial Hygiene Sampling and Analysis (5)

Prereq: 200. (winter) Lectures and lab to introduce field sampling and lab instrumentation and analytical methods common to industrial hygiene. Students required to interpret readings, analyze samples, and prepare appropriate reports. 3 lec, 3 lab.

401 Hazardous Materials in the Workplace (4)

Prereq: 200. (spring) Basic toxicology of hazardous dusts, fumes, vapors, gases, and liquids found in the workplace. Techniques necessary to recognize, evaluate, and control exposure to organic solvents, metals, asbestos, lead, radon, and other substances will be introduced. 4 lec.

405 Ventilation for Contaminant Control (4)

Prereq: 200. (fall) Designed to impart a working knowledge of the principles, methods, and practices of controlling worker exposure to hazardous concentrations of air contaminants and to present logical methods of design, evaluation, and maintenance of such systems. 4 lec.

410 Physical Hazards: Evaluation and Control (4)

Prereq: 200. (winter) Designed to provide a functional knowledge of methods used to evaluate and control noise, vibration, heat, light, and other factors affecting the health and well-being of the worker. 4 lec.

415 Introduction to Radiological Health: Evaluation and Control (5)

Prereq: 200. (spring) Introduction and overview of health effects of various sources of radiation including sources, evaluation, safety, and control factors. 3 lec, 3 lab.

420 Hazardous Material: Management and Control (4)

Prereq: 200. (fall) Lectures on gases, vapors, dusts, liquids, and solids and their physical and chemical properties. Emphasis is upon evaluation and control methods. Student is required to develop controls for specific cases and present them in technical reports. 4 lec.

Hearing and Speech Sciences (HSS)**107 Voice and Articulation (2)**

Designed to help student recognize, evaluate, and compensate for or improve speech production characteristics. 2 lec.

108 Introduction to Speech Disorders (4)(2A)

Symptoms, causes, effects, and evaluation of disorders of speech, voice, and language. 4 lec.

207 English Pronunciation—International Students (2)

Prereq: successful completion of OPIE or comparable proficiency in English. (arranged) Group and individual instruction and pronunciation of sounds, rhythm, and stress patterns of English for international students and non-native speakers of English. 1 lec, 2 lab.

240 Professional Orientation (3)

Prereq: HSS major. (fall, spring) Introduction to therapy training through lecture and videotapes of diagnosis, therapy, and various areas of profession. 2 lec, 2 lab.

297T Sophomore Tutorial I (1-15)**298T Sophomore Tutorial II (1-15)****299T Sophomore Tutorial III (1-15)**

300 Communication Disorders of the Elderly: Assessment and Rehabilitation (3) (spring) Basic information concerning nature of minor and major communication disorders, communication aids, and alternative approaches to rehabilitation. 3 lec.

309 Phonetics (4) (fall, winter) Speech sounds from sociological and physiological point of view. Mastery of International Phonetic Alphabet and English phonetic transcription. 4 lec.

310 Language Development (5) (fall, winter) Provides foundation in normal speech and language development. Development of meaning, symbolic representation, morphology, and syntax. 5 lec.

313 Anatomy and Neurology of Speech (4) (fall, winter) Structures, musculature, and functions involved in respiration, phonation, resonance, and articulation for speech. 4 lec.

336 Speech and Hearing Disorders in the Public Schools (3-4) Prereq: not open to HSS majors. (arranged) Nature, causes, and treatment of defective speech in public school children with special reference to role of classroom teacher.

341 Speech/Language Practicum (2) Prereq: 240; junior; pass speech proficiency test. (winter, spring) Diagnosis, planning of therapy, therapy experience in clinical facility. 1 lec, 2 lab.

350 Speech Science (4) (fall, spring) Physical properties of speech signals. Analysis of speech and speech perception. Lab exercises and experiments included. 4 lec.

351 Hearing Science (4) Prereq: 313, 350. (winter, spring) Physiological and psychological aspects of sound and measurement of human hearing, including sound transmission and analysis, electrophysiology of the ear, psychoacoustics. 4 lec.

378 Sign Language (4) Prereq: jr, not open to HSS majors. Instruction in manual sign language system used by deaf. Emphasis on vocabulary, encoding, and decoding signs to communicate effectively. 4 lec.

379 Basic Manual Communication (4) Prereq: major or perm. (fall, spring) Basic instruction and practice in fingerspelling and signing used by and for deaf and hard of hearing. 4 lec.

397T Junior Tutorial I (1-15)

398T Junior Tutorial II (1-15)

399T Junior Tutorial III (1-15)

413 Communication Acoustics (3) (spring) Provides telecommunications majors and other interested students with background information in acoustics as related to human speech production and perception. 2 lec, 2 lab.

418 Articulation Disorders (5) Prereq: 309. (winter, spring) Phonetic acquisition, articulation evaluation. Emphasis on practical approaches to therapy for individuals with articulation disorders. 5 lec.

419 Organic and Structural Communication and Related Disorders (5) Prereq: 313, 418. (winter, spring) Provides a background on the nature and management of communication disorders caused by injury or malfunction of speech and language mechanism and nervous system. Illustration of case management presented for selected representative cases. 5 lec.

422 Diagnostics (3) Prereq: 418, 9 hrs PSY. (winter, spring) Types of diagnosis in evaluation of speech and language problems. Screening tests, use of statistics in testing, basic interview and history procedures. 3 lec.

433 Professional Training Seminar (3-4) Prereq: sr, perm. (arranged) Seminar in concepts underlying therapy procedures.

442 Senior Methods/Practicum (3) Prereq: C or better in 341 and 418. (winter, spring) Diagnosis, planning of therapy, therapy experience in clinic facility. 2 lec, 2 lab.

442A Audiology Practicum (2)

Prereq: 470, perm of clinic director. (winter, spring) Experience in audiological diagnosis and evaluation in campus clinical facility and off-campus test sites. 1 lec, 2 lab.

442C Advanced Speech/Language Practicum (2) Prereq: 442, perm of clinic director. (winter, spring) Application of diagnosis, therapy planning, and therapy techniques. 1 lec, 2 lab.

444 Disorders of Language (5) Prereq: 310. (winter, spring) Introduction to study of language disorders in children. Diagnosis of problems, assessment of language abilities. Methodologies and techniques in perceptual, psychomotor, and language and speech training. 5 lec.

470 Basic Audiology (5) Prereq: 351. (fall, winter) Anatomy and disorders of audition. Measurement of hearing with pure tone techniques and interpretation of results of such measurements in terms of social and educational handicap. 4 lec, 2 lab.

471 Aural Rehabilitation (5) Prereq: 470. (winter, spring) Differential diagnosis of children with suspected auditory disorders. Basic remedial procedures employed with hearing handicapped. Practice in planning lessons in speech reading and auditory training. 5 lec.

480 Advanced Manual Communication (spring) To provide advanced instruction and practice in manual communication for students who anticipate study in clinical audiology or education of the deaf and special education.

498 Special Problems (1-15) Prereq: written proposal and perm.

498T Senior Tutorial I (1-15)

499 Independent Reading in Speech Pathology, Audiology, and Speech Sciences (1-15)

499T Senior Tutorial II (1-15)

History (HIST)

(Major code #BA4211)

The major requirement for the A.B. degree consists of a minimum of 52 hours. Unless partly fulfilled as a result of taking a placement test, this total includes eight hours from the 101-123 sequences; 131; and eight hours from the 211-213 sequence. Also required are 32 hours at the 300-400 level, including 301J, two courses in United States history, two courses in European history, two courses from the following fields: the ancient world, Africa, Asia, Latin America, Canada, and the Middle East. The 100 level should be taken during the freshman year and the 200 level during the sophomore year. Unless otherwise stated, the prerequisite for 300-level courses is sophomore standing or above and the prerequisite for 400-level courses is junior or senior rank. Courses in economics, geography, political science, statistics, and sociology and anthropology are suggested as electives. Completion of these requirements fulfills the Arts and Sciences College requirements of at least nine hours in the major at the junior-senior level.

A minor in history consists of a minimum of 28 hours, including at least eight hours at the 100-200 level and at least 16 hours at the 300-400 level. A student pursuing a history minor will plan an academically cohesive program in consultation with a history faculty advisor.

101 Western Civilization in Modern Times (4) (25) Renaissance to 1648: Renaissance, Reformation, origins of national state system, diplomacy, and imperialism as applied to Portugal, Spain, and Hapsburg Empire, and commercial and scientific revolutions. When possible, majors should take 101-102-103 in sequence. Nonmajors may elect 102 without taking 101; they may elect 103 without taking 101 or 102.

102 Western Civilization in Modern Times (4) (25) Continuation of 101. Covers 1648 to 1848: absolutism, constitutionalism, operation of coalition diplomacy, and imperialism as applied to France and Britain; westernization of eastern Europe, enlightenment, French Revolution, agricultural, commercial, and industrial revolutions and growth of ideologies—liberalism, socialism, and nationalism. When possible, majors should take 101-102-103 in sequence. Nonmajors may elect 102 without taking 101; they may elect 103 without taking 101 or 102.

103 Western Civilization in Modern Times (4) (25) Continuation of 101-102. Covers 1848 to present: continued industrial revolution and spread of liberalism, socialism, and nationalism; rise and fall of German bid for power in 2 world wars; new ideologies of materialism, positivism, Social Darwinism, irrationalism, totalitarianism; Russian and Chinese revolutions and international communism; rise and fall of Western empires in Africa and Asia. When possible, majors should take 101-102-103 in sequence. Nonmajors may elect 102 without taking 101; they may elect 103 without taking 101 or 102.

121 Western Heritage: Classical Age (4) (2H) Account of origins of Western heritage from ancient Near East to end of Classical Age. Included are such topics as ancient religions, philosophies, literature, and visual arts with particular emphasis on Greece and Rome.

122 Western Heritage: Medieval Legacy (4) (2H) Discussion of period from decline of Roman Empire to the Renaissance focusing on development of Judaeo-Christian traditions, concept of civilization, and emergent individualism. Important subtopics include growth of universities, chivalry, scholasticism, and humanism.

123 Western Heritage: Modernity (4) (2H) Major intellectual currents and cultural results from time of Renaissance to present examined in humanistic perspective. Included are such topics as origins of modern philosophy, languages, revolutions, political ideologies, and cultural pluralism.

131 Introduction to Third World History (4) (2T) Introduces modern history of non-Western world (Africa, Asia, Middle East, and Latin America) by focusing selectively on significant encounters with the West.

211 American History to 1828 (4) (25) Political, diplomatic, social, and economic development of American history. Covers 1607 to 1828: colonial America, founding of new nation, and early national period. When possible, majors should take 211-212-213 in sequence. Nonmajors may elect 212 without taking 211; they may elect 213 without taking 211 or 212.

212 History of the United States, 1828-1900 (4) (25) Continuation of 211. Covers 1828 to 1900: Jacksonian democracy, territorial expansion, sectionalism and controversy, Civil War, reconstruction, and impact of expanded Industrial Revolution. (See 211 for further suggestions.)

213 History of the United States Since 1900 (4) (25) Continuation of 211-212. Covers 1900 to present: progressive movement, WWI, prosperity and depression, WWII, and problems of Cold War era. (See 211 for further suggestions.)

246 The Rise of Modern Asia (4) Introductory survey of the history of a vast region that has experienced considerable changes during the past 150 years. Ten units will compare the national experiences of China, Japan, Indonesia, Vietnam, South Korea, Taiwan, Singapore, and the Philippines through stages of transition from colonialism to independence movements, from agrarian to industrial economies, and from authoritarian dynastic states toward democratic nation-states.

265A Hitler and His Nazis (4) R. Whealey. Rise of Hitler to 1933; Hitler takeover; totalitarianization of Germany; Nazi foreign policy; WWII: Hitler's war on Jews; Hitler's fall; meaning of fascism.

284 Orwell, 1984, and the Future (4) R. Whealey. George Orwell's life and works raise issues of imperialism, superpower confrontation, rise of totalitarianism, revolution, capitalism, communism, fascism, and problems of propaganda and civil liberties in America and in communist nations today.

297T Honors Tutorial Seminar, U.S. History (3-5)
Prereq: admission to Honors Tutorial College. (fall)
Covers U.S. history, 1607 to present.

298T Honors Tutorial Study, U.S. History (1-5)
Prereq: 297T. (winter) Independent study, U.S. history.

299T Honors Tutorial Study, U.S. History (1-5)
Prereq: 298T. (spring) Independent study, U.S. history.

300A Colonial America to 1689 (4)
B. Steiner. English background, establishment of settlements, first economies, evolution of political and religious structures, relations with England, internal conflicts, Glorious Revolution.

300B Colonial America, 1689-1763 (4)
B. Steiner. Governmental changes, credit and currency, Great Awakening, cultural developments, old colonial system, Anglo-French rivalry, nature of colonial society, problems of maturing political units.

300C Revolutionary Era, 1763-1789 (4)
B. Steiner. Causes of American Revolution and struggle for independence, Confederation, movement for new government, framing of Constitution.

301J Historical Research and Writing (4) (1)
Prereq: jr, HIST mjrs; others by perm. *D. Baxter, L. McGeech.* Deals with techniques and mechanics of historical research and writing. After introduction to use of primary and secondary sources and use of history reference material, students will be guided through steps of research and writing; compiling bibliography, analysis of sources, organization of evidence, and style and composition of written paper. Open not only to history majors, but, with perm, to those of other disciplines interested in history as research tool.

302 American Indians (4)
K. Jellison. Treats Indian society before white contact; Spanish, French, and English impact; Indian removal; Indian wars; problems of cultural contact; preservation versus assimilation; Indian society today.

303 United States in World War II (4)
M. Fletcher. Military and diplomatic role of U.S. in WWII; political, economic, and social impact of war on that nation.

305 The United States and the Vietnam War (4)
Examination of American experience in Vietnam, both in terms of military and diplomatic history of war itself, and its impact on American society.

306 American Environmental History (4)
Prereq: jr/sr. A survey of the evolution—from 1565 to the present—of American attitudes toward, and interactions with, the natural world, including such topics as romanticism, the "code of the sportsman," conservation, the "land ethic," and "deep ecology."

308A Pre-Civil War America, 1815-1850 (4)
P. Field. New definitions of democracy, westward expansion, early industrialization and class formation, moral reform movements, slavery and sectionalism, Mexican War, conflict of Jacksonian Democrats and Whigs.

308B The Civil War and Reconstruction (4)
P. Field. Forces making for increased sectionalism in 1850s; rise of new parties, military engagements; society and institutions in North and Confederacy during wartime, attempts to restructure Southern society after war and why they failed.

308C Foundations of Modern America: The Gilded Age, 1877-1901 (4)
P. Field. Labor unrest, nativism and anti-semitism, imperialism, government corruption, Social Darwinism, urban growth, Victorian morality, and Indian wars examined as outgrowths of efforts of American people to adapt to modernization and industrialization in late 19th century.

310A Twentieth-Century America, 1900-1928 (4)
A. Hamby, C. Pach. Emphasis on political and cultural history. Major topics include early 20th-century progressivism as an intellectual movement and its relationship to state and local politics, presidencies of Theodore Roosevelt and Woodrow Wilson, impact of World War I, ambivalent character of the 1920s in American culture and politics, origins and effects of the Great Depression.

310B Twentieth-Century America, 1928-1945 (4)
A. Hamby, C. Pach. Emphasis on politics, culture, and foreign policy. Major topics include origins and nature of the Great Depression; Franklin D. Roosevelt and the emergence of the modern presidency; political and intellectual character of the New Deal; origins and impact of American involvement in World War II; wartime military history, diplomacy, and politics.

310C Twentieth-Century America, 1945-Present (4)
A. Hamby. Emphasis on politics, culture, and foreign policy. Major topics include origins and nature of the Cold War; impact of foreign involvements on American politics; political leadership in the media age; radicalism and social change in the 60s and 70s; the rise of cultural politics and its effect on economic-based political coalitions; resurgence of conservatism in the 70s and 80s.

313 Jews in American History (4)
M. Fletcher. Examines political, economic, and religious interaction between Jews and American society. Includes Sephardic and Ashkenazic immigrants, growth of Reform and Conservative Judaism, Zionism, and modern problems of American Jews. From 1654 to present.

314A Social and Cultural History of the United States, 1607-1820 (4)
R. Daniel. Role of minorities, class structure, and religion in forming American society; development of American painting, architecture, music, literature, education, and science as expressions of Puritanism, enlightenment, and nationalism.

314B Social and Cultural History of the United States, 1820-1890 (4)
R. Daniel. See 314A for general description. Discusses romanticism, Social Darwinism, and pragmatism.

314C Social and Cultural History of the United States, 1890 to Date (4)
R. Daniel. See 314A for general description. Discusses pragmatism and existentialism.

314D American Social Thought to 1815 (4)
C. Alexander. Major aspects of intellectual history of American colonies and U.S. to 1815, organized around 2 major themes: Puritanism, and secularization of American thought in 18th century.

314E American Social Thought, 1815-1915 (4)
C. Alexander. Major aspects of intellectual history of U.S. 1815-1915, stressing rise of romantic nationalism; triumph of democratic attitude; slavery controversy; impact of Civil War and Darwinian evolution.

314F American Social Thought Since 1915 (4)
C. Alexander. Major aspects of intellectual history of U.S. since 1915, with principal attention to continuing impact of evolutionary naturalism, especially in development of pragmatism; trends in liberal and conservative political ideologies; rise of pessimistic theology and its ramifications; modernism in arts; New Radicalism and Counter Culture.

315A History of African Americans to 1865 (25)
M. Fletcher. Beginning with introduction of slavery in 1619, course deals with black person's role in America through Civil War. Concerns slavery, abolition, and many attempts by black people to improve their position.

315B History of African Americans Since 1865 (25)
M. Fletcher. Concerns Emancipation and its continuing effects on black person in America. Life in South, migration to North, and conservative and radical attempts by black community to deal with these problems.

316A History of United States Foreign Relations to 1914 (4)
J. Gaddis, C. Pach. U.S. foreign relations from war for independence to WWII, stressing development of traditional policies—isolationism, neutrality, Monroe Doctrine—and emergence of U.S. as world power.

316B History of United States Foreign Relations, 1914-1945 (4)
J. Gaddis, C. Pach. American foreign relations in 2 world wars and interwar period, emphasizing shifting perceptions of vital interests involved in transition from intervention to nonentanglement to intervention again and emergence as superpower.

316C History of United States Foreign Relations, 1945 to Present (4)
J. Gaddis, C. Pach. American foreign relations in Cold War and after, emphasizing confrontation between U.S. and Communist world, emergence of detente, and background of current foreign policy issues.

317A Ohio History to 1851 (4)
B. Steiner. Ohio to 1851: prehistoric Ohio, early exploration, settlement, government; statehood and economic development; political parties, anti-slavery movement, constitutional change.

317B Ohio History Since 1851 (4)
Ohio since 1851: pre-Civil War politics, Civil War. Economic and political transition during post-Civil War. 20th-century problems. Biographical sketches.

318 American Westward Movement (4)
American West; Appalachian West, Ohio frontier; Far West. Explorers, fur traders and trappers, miners, cattlemen, stage lines and railroads, farmers. Conservation.

319 Sports in American History (4)
C. Alexander. Survey of evolution of organized sports in U.S., focusing on major spectator sports. Emphasis on personalities and particular events rather than sociological and psychological theorizing.

319A American Baseball History (4)
C. Alexander. Survey and interpretation of the history of baseball in the U.S., from baseball's origins in European-derived stick-and-ball games; through baseball's codification, organization, and emergence as the nation's first accepted professional sport; on through its ascendancy by the early 20th century; and finally to its maturation in the century's middle decades as big corporate business. The course deals both with the place and significance of baseball in American society and with the history of the sport itself, in terms of playing styles, personalities, and major teams.

320A Women in American History Before 1877 (4)
American women's history from the colonial era through Reconstruction. Topics will include the traditional life of Native American women, witchcraft in colonial New England, women in the American Revolution, African American women in slavery, early American childbirth customs, the early women's rights crusade, women on the trans-Mississippi frontier, and women in the Civil War. Written work includes midterm and final essay exams and a research paper.

320B Women in American History Since 1877 (4)
American women's history since Reconstruction. Topics will include the experiences of immigrant women in the U.S., prostitution in the Gilded Age, the Progressive Era birth-control movement, achievement of the right to vote, women in the two world wars, women in the civil rights movement, the new feminist movement, the backlash against feminism, Roe v. Wade and the abortion debate. Written work includes midterm and final essay exams and a research paper.

321A History of the Military in America: 1600 to 1898 (4)
M. Fletcher. Military institutions in American history; role of technology in warfare; innovations and reforms in military; war and its conduct; military and civilian society in war and peace.

321B History of the Military in America: 1898 to Present (4)
M. Fletcher. Continuation of 321A. See 321A for description.

323A Latin American History: The Colonial Era (4) (2T)
M. Grow. Course examines historical origins of Latin American society. Themes include: internal nature of Iberian and pre-Columbian Indian societies, circa 1492; conquest and subordination of Amerindian civilizations by Spain and Portugal; distribution of power, land, and labor in post-conquest Latin America; order and instability in colonial society; and region's position in international economy.

323B Latin American History: The 19th Century (4) (2T)

M. Grow. Course examines 19th-century origins of modern Latin American underdevelopment, focusing on causes and consequences of Revolutions of Independence; dynamics of dictatorship and democracy in post-independence Latin American political culture; and decision-making process by which Latin America's 19th-century leaders integrated their national economies into international economic system as specialized exporters of raw materials.

323C Latin American History: The 20th Century (4) (2T)

M. Grow. Survey of modern Latin American history focusing on causes and consequences of structural instability in Latin America since 1900. Special emphasis is placed on collapse of region's traditional liberal/export model of national development in 1930s; competing political/ideological responses to structural crisis in region (social revolution, authoritarianism, democratic change); and ongoing search for viable formulas of economic development.

325 History of U.S.-Latin American Relations (4)

M. Grow. Survey of inter-American relations in the 19th and 20th centuries, focusing on evolving, and often conflicting, definitions of national interest which have shaped U.S. and Latin American policy orientations toward one another.

328 The World of Aristophanes (3)

D. Richter. Political, social, and cultural life of Athens in so-called Golden Age of ancient Greece, 5th century B.C. Special attention to Aristophanes' comedies as mirror of this period.

329A Ancient Egypt and Mesopotamia (4)

D. Richter. Prehistoric eras; origins of Mediterranean civilizations; problems of ancient chronology; civilizations of Sumerians, Babylonians, Egyptians, Assyrians, Biblical Hebrews, and Persians. Stresses archaeological and literary sources, comparative social and religious concepts, acculturation, contributions to Western civilization.

329B Ancient Greece (4)

D. Richter. Aegean prehistory, Minoan civilization, Mycenaean Greeks, Dorian invasions, Greek Renaissance, growth of polis, Athenian society and culture. Persian and Peloponnesian Wars, political history of Greece to Alexander. Stresses archaeological sources, mythology, and drama. Hellenic contributions to Western civilization.

329C Ancient Rome (4)

D. Richter. Early peoples of Italy, Etruscans, constitutional development of Republic, growth of empire, civil wars, history of principate to Constantine. Stresses archaeological sources, Latin literature, Roman life and institutions, Roman contributions to Western civilization.

330 History Through Film (4)

Examination of selected topics in U.S., European, or Third World history through films and readings accompanied by lectures and discussion.

331 The Ancient Greek Games: The Panhellenic Festivals (4)

W.P. Kaldis. Examines panorama of Greek athletic activity over period of approximately 3,000 yrs, beginning with Minoan or Cretan civilization, ca. 3000 B.C., and terminating with decline of polis, or Greek city-state, ca. 146 B.C. Explains how Panhellenic festivals helped to unite various currents of Greek civilization.

333 Oil, Energy, and International Diplomacy (4)

G. Doxsee. Energy crisis in historical perspective. Focus on oil industry during past century with particular attention to Middle East and North Africa; economic, environmental, geological, political, and technological elements of current situation.

334 The Arab-Israeli Dispute (4)

G. Doxsee. Analysis of underlying causes of Arab-Israeli confrontation from 1890s to present, including origins of Arab nationalism and Zionism; evolution of British Mandate in Palestine, Great Power involvement in Middle East, and recent developments in conflict between Israel and Arabs.

335A Survey of Middle East History to 1800 (4) (2T)

G. Doxsee. Islamic history and civilization from rise of Islam to end of 18th century. Includes discussion of role of prophet Muhammad, doctrines and institutional system of Islam, medieval Islamic caliphates and their cultural achievements, and contributions of Persians and Turks to Islamic civilization.

335B Survey of Middle East History Since 1800 (4) (2T)

G. Doxsee. History of Middle East since era of French Revolution. Transformation of Ottoman and Persian Empires into 20th-century Middle East states; impact of nationalism, secularism and industrialism on region; and position of Middle East in contemporary world affairs.

336A North Africa in Modern Times (4)

G. Doxsee. Maghrib: its geography, ethnic composition, and history since antiquity; French conquest of Algeria, Tunisia, and Morocco; administrative systems; economic development; French-Muslim relations.

336B North Africa Since 1914 (4)

G. Doxsee. Rise of nationalism; struggle for political independence; political, economic, and social problems in independent North Africa; North Africa in world affairs.

338 History of West Africa (4)

A. Booth. History of West Africa from early times to present; peopling of sudanic and forest regions; development of trade; Islam and rise of sudanic empires; slave trade and forest states; colonial era; independence movements; problems of nationalism.

338A History of East Africa (4)

History of East Africa from early times to present, with particular emphasis on period since 1750. Although neighboring countries also studied, greatest attention paid to region which comprises present-day Kenya, Uganda, and Tanzania.

341A Early Africa (4) (2T)

Africa in ancient world; spread of agriculture and iron working; rise of Islam; migrations of peoples; development of states; arrival of Europeans; beginning of slave trade.

341B Traditional Africa (4) (2T)

Slave trade; religious revolutions in western Sudan; development of African states; commercial revolution of 19th century; birth of plural society in South Africa; European partition of Africa.

341C Modern Africa 1890-Present (4) (2T)

Establishment of European rule in Africa; colonial period; rise of nationalism; decolonization and independence; problems of modern Africa.

342A South Africa to 1899 (4)

A. Booth. Establishment and transformation of African societies (Bantu migrations); coming of Europeans; evolution of Cape society (black, white, colored); conflicting nationalisms; Great Trek; rise of Zulu empire and mefane; mineral revolution and subjection of African chiefdoms; British imperialism and coming of South African War.

342B South Africa Since 1899 (4)

A. Booth. South African (Boer) War and reconstruction; formation of Union; global war and racial/regional/class conflicts over land, labor, and politics; rise of Afrikaner nationalism and triumph of apartheid; rise and radicalization of African nationalism; collision of nationalisms and expansion of conflict in 1970s; South Africa and modern world.

343 Revolutions in Southern Africa (4)

A. Booth. Historical background, and developments up to present, of revolutions in Mozambique, Angola, Zimbabwe (Rhodesia), Namibia (South West Africa), and Azania (South Africa). 2 lec, 1 disc, and 1 film per wk

344A History of the Malay World (4)

W. Frederick. Comparative view of Southeast Asian archipelago, emphasizing Indonesian civilization after 1750. Penetration of West, struggle with Imperialism and modernization, and present dilemmas. Indigenous views focus of attention.

344B History of Burma and Thailand (4)

W. Frederick. Comparative study of neighboring Buddhist states, emphasizing themes of change and continuity since mid-18th century. Special attention given to divergent responses to colonialism and Western-style development, and similarities in political and social forms.

344C History of Vietnam (4)

W. Frederick. Modern Vietnamese civilization since 15th century, emphasizing political and social change after 1800. Special attention given to Vietnamese struggle with outside powers, including China, France, U.S., and Soviet Union.

345A Southeast Asia to c. 1750: The Creative Synthesis (4) (2T)

W. Frederick. Highlights of pre- and proto-history and development of classical states. Emphasis on cultural synthesis (Hindu, Buddhist, Muslim, and animist influences) and theme of change and continuity in both Great and Little traditions of region.

345B Southeast Asia, c. 1750 to 1942: Change and Conflict (4) (2T)

W. Frederick. Indigenous change and widening effects of Western penetration, with emphasis on social and cultural developments. Nature of colonialism in region, and response of colonized seen in light of both traditional and modern influences.

345C Southeast Asia, 1942 to the Present: The Search for Stability (4) (2T)

W. Frederick. Japanese occupation and its relationship to great national revolutions of 1940s. Social and cultural context of nationalism and revolt, search for new political forms, and struggle against disunity and poverty.

346A Traditional China (4) (2T)

D. Jordan. Follows developments in the Chinese civilization from the Shang bronze age, through primary philosophies, and up to final refinements of its massive imperial government and traditional society in the 1800s.

346B Modern China (4) (2T)

D. Jordan. Weakness of empire in 1800s confronted by dynamic Western economic and political imperialism; response to pressures of nationalism from without and from within; great flux in modern Chinese society and politics.

348A Traditional Japan (4)

D. Jordan. Traces major elements of Japanese culture and thought from their indigenous origins, through major Chinese influence, results of medieval civil warfare, and up to premodern workings of Japan's sophisticated commercial economy.

348B Modern Japan (4)

D. Jordan. Political weakness of Tokugawa system leading to opening of Japan to Western trade and restoration of emperor; favorable economic and political base which allowed Japan to enter successfully into competition with European nations; Japan's ultra-nationalist era and postwar reconstruction.

351 Medieval People (4)

C. Reeves. In-depth inquiries into lives and epochs of representative individuals of medieval Europe: Middle Ages through biography.

352 Medieval Civilization (4)

C. Reeves. Survey of cultural and intellectual history. Transmission of Christianity and classical culture to barbarians and their work of combining them into new civilization in early Middle Ages. Medieval civilization at its height: Church, schools and scholastic thought, and secular culture.

353A The Early Middle Ages (4)

C. Reeves. Foundation of Medieval synthesis, 300-1100; collapse of Roman world, establishment of successor states, spread of Christianity, formation and development of European culture.

353B The Later Middle Ages (4)

C. Reeves. Maturing of Medieval Europe and transition to early modern era, 1100-1450; developments in commerce, religious life and institutions, governments, politics, learning, and secular culture.

354 Early Christianity: East and West (4)

Will investigate historical development and spread of Christianity from its origins to about A.D. 600. Content includes Greek and Hebraic backgrounds, early church fathers of East and West, ecumenical councils, early heresies, and development of church doctrine.

356A The Italian Renaissance (4)

P. Bebb. Major political, social, economic, and cultural currents of Italian city-states from 1300 to 1550. Focus on Dante, Petrarch, Boccaccio, Bruni, Machiavelli, Guicciardini, Michelangelo, Leonardo da Vinci, etc.

356B The Northern Renaissance (4)

P. Bebb. History of Renaissance outside Italy: politics, economics, sociology, and intellectual currents of Germany, France, Spain, Burgundy, and England from 1300 to 1600. Treated thematically, course focuses on Erasmus, More, Ximenes, Reuchlin, Hutten, Bude, etc.

356C The Reformation (4)

P. Bebb. Protestant, Catholic, and Counter-Reformations in Europe, showing their relationships to social, political, economic, and religious movements of 15th and 16th centuries. Roles of Luther, Zwingli, Calvin, Cranmer, Erasmus, Loyola, etc.; Protestant and Catholic churches and sects in western and eastern Europe.

357 Florentine People (4)

P. Bebb. Major figures in Florence from 1300 to 1600, from Dante to Galileo; concerns are with some originators of modern thought in areas of artistic theory, poetic form, Italian language, political ideas, scientific method, and historical composition.

358A Early Modern Europe, 1559-1648 (4)

D. Baxter. Europe from 1559 to 1648. Main political, economic, and social developments in Europe during Age of Spanish Preponderance; Philip II, wars of religion, Richelieu, Thirty Years' War, and ideological struggles.

358B Early Modern Europe, 1648-1715 (4)

D. Baxter. Europe from 1648 to 1715. Main political, economic, and social developments in Europe during Age of Louis XIV; French hegemony, rise of balance of power, absolutism.

358C Early Modern Europe, 1715-1774 (4)

D. Baxter. Europe from 1715-1774. Main political, economic, and social developments in Europe during 18th century: despotism, diplomatic revolution, competition for empire, Enlightenment.

360 Women in European History (4)

R. Harvey. The family, work, feminism, and women and politics are major topics of this introduction to women's history in France, England, Germany, and Russia from Renaissance to present, with emphasis on more recent developments. Lec, disc, films, slides, and guest speakers.

362A Europe, 1814-1871 (4)

L. McGeoch. Europe from Congress of Vienna through Franco-Prussian War, including growth of liberalism and nationalism, revolutions of 1830 and 1848, Industrial Revolution, unification of Italy and Germany, social and intellectual movements.

362B Europe, 1871-1914 (4)

L. McGeoch. Development of Austria-Hungary, France, Italy, Germany, Great Britain, and Russia, including imperialism, background of WWI, and social and intellectual movements.

364A Europe Between World Wars (4)

P. Whealey. Fascism, Communism, World Depression, and Twenty-year Armistice between 1919 and 1939. Economic and cultural approach.

364B Contemporary Europe (4)

P. Whealey. Cold War, Communist bloc, European integration, decolonization, Gaullist regime, and problems of present-day Europe.

366A Modern France in the 19th Century (4)

J. Chastain. Rise and fall of Napoleon, his impact on France and Europe, monarchist interlude, revolution of 1848 and election of Louis Napoleon, Second Empire, liberal and authoritarian, wars and transformation of Europe, fall of Napoleon and Paris Commune, Third Republic.

366B Modern France in the 20th Century (4)

J. Chastain. Dynamic and stagnant aspects; nostalgia and rejection of 20th century; impact of 20th century; democracy in France; European and colonial wars; communist movement from Popular Front to Common Program; anti-communism in France; French in changing world; De Gaulle, his predecessors, and his successors.

368A Modern Germany in the 19th Century (4)

J. Chastain. Cosmopolitanism and movement to create national German state; rise of capitalism and decline of handicraft; liberation of German peasantry; revolution of 1848 and reaction; blood-and-iron chancellor; Germany's rise to European predominance; rise of worker movement; German society at turn of century.

368B Modern Germany in the 20th Century (4)

J. Chastain. Germany on eve of WWI; military fiasco and creation of Weimar Republic; Weimar, Berlin, Munich, and Dresden; attempt to forge democracy; Third Reich and transformation of German society; WWII and Final Solution; Communist Germany and Federal Germany; 2 societies and 2 states since 1945.

370 History of Byzantine Empire, 324-1453 (4)

W. Kaldis. Decay of Roman World and emergence of Christian empire, 324-717; Medieval Roman Empire, 717-1056; weakening of central administration and apparent revival under Comneni, 1025-1204; Byzantium and neighboring world, 1204-1453; church and state; education and learning; Byzantine art; social, political, and military developments.

372A Balkans in Early Modern Period, 1453-1804 (4)

W. Kaldis. Ethnographic structure of Balkan peoples under rule of Ottoman Empire. Ottoman institutions and society; political, social, economic, religious, and cultural developments in Balkans in 15th, 16th, 17th, and 18th centuries.

372B Balkans in 19th Century, 1804-1878 (4)

W. Kaldis. Evolution of modern Balkan nationalism and rise of Balkan states. Ottoman dissolution and Balkan revolutionary nationalism: political, social, economic, religious, and intellectual developments; domestic Balkan policy and foreign intervention.

372C Balkans in 20th Century, 1878 to Present (4)

W. Kaldis. Historical, cultural, and ethnic background of Balkan peoples. Social, economic, political, and intellectual developments in Balkans and East Europe; communication of southeast European states.

374A Balance of Power: Napoleon to the Kaiser (4)

L. McGeoch. Diplomatic history from Congress of Vienna to WWI, including age of Metternich, Italian and German unification, new imperialism, and prewar alliances and alignments.

374B History of International Diplomacy, 1914-1939 (4)

R. Whealey. International problems of peace and war, international organization and alliances. Theme: origins of WWI.

374C History of International Diplomacy, 1939 to Present (4)

R. Whealey. International problems of peace and war on world-wide scale since 1939, international organization and alliances. Theme: global balance of power.

375 World War I (5)

D. Richter. Covers the origins of the war, both diplomatic and strategic, as well as the peace-making afterward, but the central focus will be the war itself, the major offensives, Allied and German strategies and tactics, trench warfare of the Western Front, chemical warfare, the war in the air and on the seas, the home front, the use of the machine gun and the tank.

376 Biography: Leaders in 19th Century Europe (4)

L. McGeoch. Lives of great and near great as they influenced history.

378 Espionage and History (4)

A. Booth. Historical perspective on modern secret intelligence operations, including espionage, propaganda, disinformation, cryptography, and counterintelligence. Examination of role of secret intelligence in foreign policy and national public policy, especially in times of war and crisis. Attention paid to intelligence and national security requirements of societies valuing openness and human freedom. Course stresses specific historical examples.

381 History of the Family (4)

D. Baxter. Chronological examination of the history of the Western family from medieval to modern times in Europe and America. Focuses on changes in family life through time. Particular attention devoted to role of women in their relationship to men and children, for until the 20th century the characteristic area of women's activity was the family.

382A History of Russia (4)

S. Miner. Russian origins, Greek and Mongol influences, expansion of Muscovy, Ivan the Terrible, Peter the Great, Catherine the Great, Russia as great power, and shapes of its 19th-century society.

382B Russia: Road to Revolution 1825-1917 (4)

From tsarist Russia to communist revolution. Background for revolution: origins of Russian socialism, rapid social and economic change, 1905 Revolution, war and the collapse of the Romanov dynasty in 1917.

382C Soviet Union (4)

S. Miner. Soviet Union since the 1917 Revolution. Stalinism, WWII and expansion, Krushchev, Brezhnev. Emphasis on internal affairs.

389 Later Medieval England, 1307-1485 (4)

C. Reeves. Age of Chaucer and Wars of the Roses. Investigation of political, social, intellectual, ecclesiastical, and economic aspects of period of ferment and rapid change.

390A Tudor England (4)

R. Harvey. England in 16th century: Tudor absolutism, English Reformation, and major cultural and economic developments of Shakespeare's England.

390B Stuart England (4)

R. Harvey. England in 17th century: constitutional crisis of Stuart period, republican experiment under Cromwell, and major cultural and economic developments.

391A English History to 1688 (4)

C. Reeves. For English, political science, and prelaw majors and general students of history. Survey of institutional aspects of medieval England and social, political, and constitutional developments in Tudor and Stuart periods.

391B English History Since 1688 (4)

R. Rauschenberg. For English, political science, and prelaw majors and general students of history. Emphasizes cultural and economic developments, growth of British Empire, constitutional and social reforms, and impact of WWI and WWII.

392A Georgian England (4)

R. Rauschenberg. Survey of political, social, intellectual, cultural, and economic developments of England in years prior to and during American and French revolutions.

392B Victorian England (4)

R. Rauschenberg, D. Richter. Survey of England's history in 19th century, including examination of major political, cultural, and economic trends.

392C 20th-Century England (4)

R. Rauschenberg. Survey of English history in 20th century concentrating on political, cultural, and economic developments.

394A The Medieval English Constitution (4)

C. Reeves. English government from Anglo-Saxon times to end of Middle Ages. Growth of machinery of monarchy, central administration, courts and common law. Rise of Parliament.

394B The Modern English Constitution (4)

R. Harvey. Emergence of modern English constitution during 16th and 17th centuries: creation and growth of Tudor Constitution; significance of English Reformation for constitution; Tudor Parliament; "Century of Revolution" (1603-1689) and crisis of Constitution; problems of sovereignty and obligation; constitution today.

395 History of Canada (4)

J. Chastain, R. Rauschenberg. Introduction to Canada; study of its exploration and development under France and England, and its emergence as important modern nation.

396J Writing on Historical Themes (4) (1J)

Prereq: jr. Students will study and write on selected historical themes. Equal emphasis on historical materials and writing. Fulfills jr-level English composition requirement.

397T Honors Tutorial Study, European History (1-5)

Prereq: admission to Honors Tutorial College, (fall). Covers European history from Renaissance to present.

398T Honors Tutorial Study, European History (1-5)

Prereq: 397T. (winter) Independent Study. European history.

399T Honors Tutorial Study, European History (1-5)

Prereq: 398T. (spring) Independent Study. European history.

401A Studies in Colonial American History (4)

Prereq: 24 hrs and perm. *B. Steiner.* Literature and source materials of colonial American history. Readings and reports.

401B Studies of the Era of the American Revolution (4)

Prereq: 24 hrs and perm. Literature and source materials of American Revolution. Readings and reports.

405 Studies in the Foundation of the American Republic, 1783-1819 (4)

Prereq: 24 hrs and perm. Literature and source materials of early national period of American history. Readings and reports.

407 Studies of the Era of Sectional Controversy: 1819-1850 (4)

Prereq: 24 hrs and perm. Literature and source materials of era of sectional controversy, 1819-1850. Readings and reports.

409 Studies in the Era of the Foundations of Modern America, 1850-1901 (4)

Prereq: 24 hrs and perm. Literature and source materials for period 1850-1901 in U.S. history. Readings and reports.

411 Studies in the History of the United States in Recent Times (4)

Prereq: 24 hrs and perm. *C. Alexander, A. Hamby.* Literature and source materials of recent U.S. history. Readings and reports.

415 Studies in the Social, Cultural, and Intellectual History of the United States (4)

C. Alexander. Selected topics.

417 Studies in the History of American Foreign Relations (4)

Prereq: 24 hrs or perm. *J. Gaddis, C. Pach.* Literature and source materials of American foreign relations. Readings and reports.

421 Studies in Regional History (4)

Prereq: 24 hrs and perm. Literature and source materials of U.S. regional history. Readings and reports.

424 Studies in the History of U.S.-Latin American Relations (4)

Prereq: 325 or perm. *M. Grow.* Readings and research papers on major issues in 20th-century U.S.-Latin American relations.

426 Dictatorship in Latin American History (4)

Prereq: jr or perm. *M. Grow.* Focuses on predominant type of political/governmental system in Latin America: authoritarian dictatorship. Examines major examples of 20th-century ideological authoritarianism in Latin America: ranging from populist authoritarianism of Juan Peron in Argentina to bureaucratic authoritarian regimes recently in power in Southern Cone and Brazil. Attention devoted to competing schools of interpretation which attempt to explain recurring phenomenon of nondemocratic forms of government in Latin America.

427 Studies in Recent Latin American History (4)

Prereq: perm. *M. Grow.* Literature and source materials of recent Latin American history. Readings and reports.

429 Studies in the History of Ancient Greece (4, max 8)

Prereq: 24 hrs and perm. *D. Richter.* Literature and source material of ancient Greek civilization. Readings and research paper. Themes vary from qtr to qtr. May be repeated for credit.

435 Studies in Middle East History (4)

Prereq: 24 hrs or perm. *G. Doxsee.* Selected topics on Middle East since 1914. Readings and reports.

441 Studies in African History (4)

Prereq: 24 hrs and perm. *A. Booth, G. Doxsee, S. Miers.* Literature and source materials of African history. Readings and reports.

445 Studies in the History of Southeast Asia (4)

Prereq: two 300- or 400-level courses in social sciences or humanities dealing with Asia. *W. Frederick.* Literature of Southeast Asian history and culture generally, with particular emphasis on selected developments in 19th and 20th centuries. Readings and reports.

449 Studies in the History of East Asia in Modern Times (4)

Prereq: two 300- or 400-level courses in social sciences or humanities dealing with Asia. *D. Jordan.* Historical literature relating to process of modernization of China and Japan from 1860s to 1960s. Readings and reports.

463 Studies in 19th-Century Europe (4)

Prereq: 24 hrs or perm. *L. McGeoch.* Literature and source material of 19th-century Europe. Readings and reports.

467 Studies in Modern France (4)

Prereq: 24 hrs and perm. *J. Chastain.* Literature and source material of modern France. Readings and reports.

483 Studies in Russian and Soviet History (4)

Prereq: 24 hrs and perm. *S. Miner.* Literature and source material of Russian and Soviet history. Readings and reports.

491 Studies in Early Modern English History (4)

Prereq: 24 hrs and perm. *R. Harvey.* Studies in early modern English history from multidisciplinary perspectives.

493 Studies in British History Since 1714 (4)

Prereq: 24 hrs and perm. *R. Rauschenberg.* Literature and source material of British history since 1714. Readings and reports.

495 History Internship (5)

Prereq: jr or sr, history major, 3.0 g.p.a. Designed to enhance skills for history majors through history-related work assignments in public and private agencies.

496 Quantitative Methods in History (4)

P. Field. Introduction to descriptive and inductive statistical techniques used in historical research and analysis of current literature employing such techniques. Instruction in use of computer.

497T Advanced Honors Tutorial Study (1-5)

Prereq: 299T, 399T. (fall) Independent study, advanced level.

498 Problems in History (1-5, max 9)

Prereq: 24 hrs, perm. Intensive individual work either in research or individual systematic reading along lines of student's special interest and under supervision of staff member.

498T Advanced Honors Tutorial Study (1-5)

Prereq: 497T. (winter) Independent study, advanced level.

499 Honors Studies of Selected Historical Topics (1-5, max 15)

Prereq: perm. Study, reading, research, and writing on selected topic; intended for students who plan to graduate with honors in history. Arrangements should be made during jr yr.

499T Advanced Honors Tutorial Study (1-5)

Prereq: 498T. (spring) Independent study, advanced level.

Human and Consumer Sciences

Child and Family Studies (HCCF)**160 Introduction to Child Development (4) (25)**

Fundamental patterns of development and behavior during prenatal period through early childhood. 4 lec. No credit awarded if EDEL 200 or PSY 273 has been taken.

270 Family Living (3)

(fall) Person-centered analysis of basic human relationship processes leading to successful modern American marriage and family experience. Special discussion and analysis of problems in beginning family stage. 3 lec.

299 Sophomore Practicum—Professional Assessment (5)

Prereq: soph, major. (fall) Provides professional experience for students who have declared majors in child development, family studies, or home economics education. Seminar sessions and performance assessment provide opportunity to assess professional competence at this level. 5 lec.

360 Human Sexuality (4)

Explores effect of human sexuality on aspects of one's ability to form relationships which are integrative, creative, and recreative. Emphasis on realization on dynamic potential in wholeness of life pattern and in relationships, in light of scientific research. 4 lec.

361 Principles of Preschool Guidance (4)

Prereq: 160 or PSY 273 or EDEL 200. (fall) Application of theories and principles of preschool guidance by directed observation of adult-child interactions and supervised participation in early childhood education programs. 3 lec, 3 lab.

363 Creative Experiences with Preschool Children (4)

Prereq: 361. (winter) Selection, preparation, presentation, and evaluation of activities and materials in art, music, language, psychosocial, and physical development for early childhood programs. 3 lec, 3 lab.

364 Premath and Science with Young Children (4)

Prereq: 361; 1 course BIOL or BIOS. (winter) Examples of early childhood programs, primary elements and issues that differentiate them. Selection, preparation, presentation, and evaluation of premath and science activities and materials. 3 lec, 3 lab.

365 Infant Education (4)

Prereq: 361. (spring, alt yrs) Knowledge of ways in which children learn from birth to 3 years; opportunity to structure environment to foster social, emotional, cognitive, and physical development of infant, as well as understanding of issues and trends in infant education.

366 Practicum in Early Childhood Education (6)

Prereq: 363, 364, perm. Lab experience in assisting the planning, guiding, supervising, and evaluating preschool children's growth and behavior in all phases of early childhood education programs. Required for students in the associate's degree program.

371 Family Development (3)

Prereq: jr. (fall) Synthesis of essential concepts useful in comprehending families in light of developmental concept for family analysis through stages of family life cycle. 3 lec.

380 Death and Dying (4)

Prereq: jr. (spring) Examines why people fear death, how death affects family relationships, dynamics of guilt and bereavement, meanings of death, processes of dying, disposition of body, caring relationships. Synthesizes multiple dimensions of death and dying.

399 Junior Practicum—Professional Development (5)

Prereq: 299, jr. major. (spring) Provides students with practical field-based experience in professional areas. 3 lec, 6 lab.

400 Senior Seminar (3)

Prereq: 299, perm. Provides opportunity for comprehensive assessment in relation to personal and professional growth prior to exiting programs as professionals in child development or family studies. 3 lec.

441 Evaluation in Child and Family Studies (4)

Prereq: sr. (arranged) Evaluation and assessment methods and techniques in relation to process and products in home economics programs and professions. 4 lec.

444 Adult Education in Human and Consumer Sciences (4)

Prereq: jr. (winter, alt even yrs) Organization procedures, curriculum materials, and methods of conducting adult education groups in home economics. 4 lec.

452 Home Management for the Disabled Homemaker (4)

Prereq: jr. (winter, spring) Recognizes unique home management demands faced by persons with disabilities and their families and determines creative methods and identifies resources to meet those demands. 4 lec.

453 Functional Assessment in Independent Living (3)

Prereq: jr. (arranged) Explores functional assets and limitations of persons with disabilities in completing household tasks, identifies methods and materials used in assessment of functional limitation, and determines resources and strategies to increase ability of clients to perform household tasks. 3 lec.

462A Pluralistic Life Styles (3)

Prereq: jr. (fall) Analysis of emerging pluralistic marriage and family life patterns in American society. 3 lec.

462B Parenthood (3)

Prereq: jr. (winter) Analysis of dynamics of parenthood. 3 lec.

462C Middle Childhood (3)

Prereq: jr. (spring) Analysis of developmental tasks of middle childhood years as they reflect and influence family guidance and transmission of values. 3 lec.

462D The One-Parent Family (3)

Prereq: jr. (spring) Analysis of dynamics of one-parent family in light of its needs, challenges, and distinctive characteristics. 3 lec.

462E Youth Identity Crisis (3)

Prereq: jr. (winter) Analysis of identity crisis in terms of its psychosocial aspects of adolescence. 3 lec.

462F The Aged Family (3)

Prereq: jr. (fall) Synthesis of multiple dimensions of aged family. 3 lec.

463 Preschool Administration (5)

Prereq: 363, 364 (spring) History, philosophy, and objectives of preschool education including current trends. Problems in organizing and administering preschools, play groups, and Head Start programs with emphasis on housing, staff, schedules, and financing. Field trips to selected programs. 5 lec.

464 Early Childhood Practicum (6-12)

Prereq: perm. Lab experience in planning, guiding, supervising, and evaluating preschool children's growth and behavior in all phases of early childhood education programs.

465 Parent Education (4)

Prereq: 363, 371 (fall) Philosophy, techniques, materials, and methods used in working with parents. Opportunities for observation and participation with parent groups, parent conferences, and home visits. 4 lec.

467 Theories of Child Development (4)

Prereq: 361, jr. (fall) Review of theories of child development with synthesis approach for students in early childhood education programs. 4 lec.

471 Family Life Education (4)

Prereq: 371, jr. (winter, alt odd yrs) History, philosophy, and objectives of family life education, including current trends. Selected fundamental education problems explored. Examination of various dimensions of teacher's role and critical appraisal of student's professional competency to teach classes in family life education. 4 lec.

472 Special Studies in Child and Family Studies (2-5)

Prereq: perm. In-depth independent study in selected area.

499 Field Experience in Family Studies (12)

Prereq: 399, 400, perm. On-the-job training through cooperation with social, welfare, or community agencies, hospitals, early childhood programs.

Fashion and Retail Merchandising (HCRM)**117 Textiles and Dress and the Environment (3)**

Prereq: PSY 101 or SOC 101 or concurrent. (fall, winter) Contemporary uses and roles of textiles and clothing as affected by economic, cultural, social, and psychological forces. 3 lec.

201 Introduction to Retailing (4)

(fall, spring) Introductory examination of retailing as major economic force in the country and as significant contributor for career opportunities. Practical analysis of retail operations and impact of socioeconomic factors. Focus on terminology, trends, retailers, and advances in retail technology. 4 lec.

213 Design Analysis: Theory and Principles (4)

Prereq: 117, soph, Tier I math. (arranged) Fundamental principles as applied to understanding use and fit of commercial pattern and apparel construction. Emphasis on scientific thought, creative expression, and construction problems. 2 lec, 4 lab.

283 Apparel Production Process (4)

Prereq: 117. (fall, spring) Examination of ready-to-wear apparel production and manufacturing, related to design, sizing, fit and apparel components. 3 lec, 2 lab.

299 Sophomore Practicum—Professional Assessment (4)

Prereq: soph. (fall) In-depth study of career opportunities and job responsibilities; assessment of personal and professional assets and needs. On-the-job mini-experience related to career option. 4 lec.

312 Studies in Clothing and Textiles (2-4, max 8)

Prereq: perm. Selected topic in clothing and textiles.

315 Elementary Textiles (4)

Prereq: soph, Tier I math. (fall, winter) Properties and processing of fibers, yarns, fabrics, dyes, and finishes, with emphasis on consumer use. 3 lec, 2 lab.

318 Fashion Merchandising—Promotion (4)

Prereq: 299, JOUR 250, jr. (fall) Factors influencing planning, promoting, presenting, and selling of fashion goods. Study of store image, development, layout, and visual presentation techniques. Development of marketing problems including alternative promotional techniques and cost control. 4 lec.

383 Product Evaluation, Buying, and Negotiating (4)

Prereq: 283. (winter, spring) Examination of the evaluation criteria for quality control of products in the fashion industry. Development of effective buying skills and negotiating techniques, with attention to ethical practices. 4 lec.

399 Junior Practicum—Professional Development (3)

Prereq: 299, jr. major. (winter) Job-seeking skills, company review, issues in professional development. Mini-professional experience. 3 lec.

400 Professional Evaluation (1)

Prereq: 399, with 499, major. Provides opportunity for students to demonstrate personal and professional growth by sharing experiences in verbal and written form to staff and fellow students.

405A History of Costume (4)

Prereq: jr. (winter) Costume through ages as reflection of historical period and source for present-day design. 4 lec.

405B History of Textiles (2)

Prereq: 315. (spring, alt even yrs) Textiles through ages as reflective of historical period and source for present-day design. 2 lec.

407 Textiles and Fashion Industries (4)

Prereq: sr, jr. English. (winter) Economic factors influencing textile and fashion industries treated in depth. 4 lec.

415 Flat Pattern (4)

Prereq: jr. (spring, alt odd yrs) Creative apparel design and interpretation with emphasis on flat pattern manipulation. 2 lec, 4 lab.

416 Draping (4)

Prereq: jr. (arranged) Designing of apparel using draping techniques. Emphasis on fabric as medium rather than pattern development in design process.

417 Retail Merchandising—Management (4)

Prereq: CS 120, HS 309, MIS 100 or HCID 340; jr. (fall, winter) Marketing and management principles related to buying and controlling of merchandise. Emphasis on organizational structure, personnel management, planning, buying, and controlling merchandise assortments. Retail mathematics problems included. 4 lec.

418 Textile Testing (4)

Prereq: C or better 315; sr. (spring) Principles, techniques, and standard testing methods for textiles and clothing. Lab sessions emphasize standard textile testing procedures and research methods. 2 lec, 4 lab.

419 Studies in Textiles Testing (3)

Prereq: perm. Individual research and lab testing of problems in advanced textiles.

420 New York Study Tour (2)

Prereq: jr, perm. (spring, alt odd yrs) Directed study problems related to textile and apparel industry in conjunction with on-site tours of textile and apparel market centers. Fees for travel, food and housing.

437 Strategic Merchandise Planning (4)

Prereq: C or better 417. (spring) Advanced use of spreadsheets and merchandise mathematics incorporated into computer simulations of various merchandising techniques. Topics include assortment planning, buying, personnel management, and inventory control.

454 Clothing for Persons with Special Needs (3)

(arranged) Exploring dressing techniques and functional design alternatives for individuals with special needs. Focus given to populations such as elderly, physically or mentally disabled, and temporarily or permanently disabled. 3 lec.

499 Field Experience—Fashion and Retail Merchandising (12)

Prereq: sr, major. On-the-job experience through cooperation with industry and/or retail establishments.

Food and Nutrition (HCFN)**110 Introduction to Hospitality (3)**

(fall, spring) Overview of restaurants, institutional food service, hotels, and travel and tourism. Exploration of different career possibilities in the hospitality industry. 3 lec.

120 Meal Management (3)

Prereq: human & consumer science major (fall) Principles of food preparation and nutrition emphasizing use of time, energy, and resources in management of meals. Government regulations controlling food supply. 2 lec, 3 lab.

128 Introduction to Nutrition (4) (2A)

Nutrients, their food sources and functions in body, application to planning adequate diet through life cycle. 4 lec.

222 Food Science and Principles (4)

Prereq: 120, CHEM 121 or 152. (winter) Scientific principles applied to selection, storage, and preparation of foods. 3 lec, 2 lab.

232 Infant and Child Nutrition (4)

Prereq: 128, HCCF 160 or PSY 273 or EDEL 200. (arranged) Dietary factors related to nutritional status in pregnancy, infancy, preschool, and school-age children. Contribution of nutrition education and school lunch program in school curriculum. 3 lec, 2 lab.

299 Sophomore Practicum—Professional Assessment (1)

Prereq: 120, 128, INCO 101 or 103. (fall) Development of an awareness of the history, philosophy, goals, organization, and requirements of the dietetic profession. 1 lec.

330 Food Sanitation and Safety (2)

(winter, alt odd yrs) Applied food service sanitation procedures in the food handling functions of purchasing, storage, preparation, and service. Upon completion, students eligible for National Certification in Food Safety. 2 lec.

334 Quantity Food Production (4)

Prereq: 128, 222. (fall) Food preparation principles applied to large quantity food production, menu planning, and service in institutions. Experience in residence halls. 2 lec, 4 lab.

335 Food Service Purchasing (4)

Prereq: 334. (winter, alt even yrs) Managerial approach to the purchasing and selection of a wide variety of food, beverage, and nonfood items. Emphasis placed on purchasing the optimal amount at the optimal price. 4 lec.

382 Intermediate Nutrition (4)

Prereq: 128, CHEM 123. (spring) Focuses on application of basic principles and research findings relating to adequate nutrition throughout the life cycle. 4 lec.

399A Dietetics/Nutrition with Science Field Experience (5)

Prereq: 299, 382, major. (summer) Professional experience in hospitals, nursing care centers, community agencies providing nutrition care, government agencies charged with nutrition policy, or other direct nutrition providers under supervision of a Registered Dietitian (RD).

399B Food Service Field Experience (5)

Prereq: 334. (summer) Professional experience in restaurants, hotels, or other hospitality establishments under the supervision of an experienced professional.

400 Senior Seminar (1)

Prereq: 399A or 399B (fall) Provides opportunity for students to demonstrate their personal professional growth by sharing experiences in verbal and written form with staff and fellow students. 1 lec.

422 Experimental Foods (4)

Prereq: 222, CHEM 302. (spring) Factors which affect results of different methods used in food preparation. Research techniques using subjective and objective evaluation of products. 3 lec, 2 lab.

426 World View of Nutrition (3)

Prereq: 128; SOC 101 or ANTH 101; jr or sr. (winter) Survey of world food situation with consideration of environmental, cultural, governmental, and economic factors that relate to food production and consumption. Evaluation of these patterns in meeting dietary needs. 3 lec.

427 Studies in Foods and Nutrition (2-4, max 8)

Prereq: 128, 222, jr. (arranged) Directed studies in some aspect of foods and/or nutrition; topics selected by students with approval of faculty member; frequent conferences.

428 Advanced Nutrition (4)

Prereq: 382, BIOS 345, CHEM 302. (fall) Biological aspects of nutritional science building on concepts in biochemistry and human physiology. Examination of present knowledge of nutrients, their utilization at the cellular level, and recommendations for intake compatible with good health. 4 lec.

429 Community Nutrition (3)

Prereq: 128, 382, jr or sr. (spring) Assessment of community nutrition needs. Survey of agencies and programs providing services. Role of nutritionist. Methods and resources for nutrition education. Legislation. 3 lec.

430 Therapeutic Nutrition (4)

Prereq: 428, BIOS 345, 463. (winter) Use of dietary modification in prevention and treatment of disease. Nutritional assessment. Problems in nutritional care. 4 lec.

431 Studies of Science of Nutrition (3)

Prereq: 428 or concurrent; BIOS 345 or 460; BIOS 463 or concurrent. (arranged) Nutrition as related to physiological and metabolic processes. Individual research project. 1 lec, 2 lab.

437 Food Service Systems I (5)

Prereq: 334, CS 120 or MIS 100 or HS 309. (winter) Introduction to tools and functions of management in food service with emphasis on organization structure, catering, inventory control, staffing, work methods, human relations skills, sanitation, and safety. 4 lec, 3 lab.

438 Food Service Systems II (4)

Prereq: 437, ACCT 201. (spring) Institutional equipment purchasing, kitchen layout design, facilities management, and cost control. 4 lec.

439 International Cuisine (4)

Prereq: 334, 437. (spring, alt yrs) Principles of international cuisine, advanced food preparation, and research of areas of specific interest. 2 lec, 4 lab.

440 Beverage Management (4)

Prereq: 437 (spring, alt even yrs) Managerial approach to beverage management in hotels, restaurants, and catering operations. Emphasis on facility planning, merchandising, and managing a beverage operation. 4 lec.

498A Nutrition Counseling (2)

Prereq: 399A, 428 or concurrent. (fall) Nutrition counseling process and skills including assessment, treatment, and evaluation for follow-up in ambulatory care. 2 lec.

498B Food Service Professional Development (2)

Prereq: 399B, major. (fall, alt even yrs) Professional experience for food service majors with opportunities for career assessment. Practice in interviewing and job-seeking skills. 2 lec.

499A Nutrition Counseling Practicum (3)

Prereq: 399A, 498A or concurrent. (winter, spring) Nutrition counseling practicum including assessment, treatment, and evaluation for follow-up in ambulatory care.

499B Food Service Practicum (3)

Prereq: 498B or concurrent. (arranged) Food service experience at a food service establishment.

General Education (HCGE)**340 Teaching of Home Economics (4)**

Prereq: EDSE 250, 250L, 270, 270L. (arranged) Home economics programs at junior and senior high school level. Special emphasis on vocational education, curriculum development, evaluation procedures, and methods of teaching. 4 lec.

341 Job Training Methods (4)

Prereq: perm. (arranged) Exploration and development of personal and professional competencies necessary for teaching in vocational home economics job training programs. 4 lec.

345J Writing in Human and Consumer Sciences (4) (1J)

Prereq: jr. (winter) Investigation and analysis of current issues and concerns in home economics profession. Emphasis placed upon developing variety of writing formats in order to communicate effectively with selected audiences. 4 lec.

390 Family Consumer Economics (3)

(fall) Management of personal and family financial problems. Emphasis on consumer's role in economy. 3 lec.

391 Equipment (2-4)

Prereq: 390. (arranged) Selection and use of household equipment including materials, construction, operation, and care.

395 Home Management (3)

Prereq: soph. (arranged) Decision making applied to use of family resources with purpose of creating family environment in which optimum human development will occur. 3 lec.

396 Home Management Laboratory (4)

Prereq: soph. (arranged) Principles of decision making and management in group living situation. Home management house experience provided. 8 lab.

450 Problems in Teaching Home Economics (2-4, max 6)

Prereq: perm. (arranged) Individual problems in teaching.

459 Human and Consumer Sciences Seminar, Workshop and Short Course in International Service (2-4)

Special seminar or workshop for international students or for home economics majors who want to prepare for international service.

479A-K Workshop in Human and Consumer Sciences (1-6)

Special workshops on topics related to home economics.

479A Home Economics Education**479B Clothing & Textiles****479C Food & Nutrition****479D Child Development****479E Consumer Economics****479F Home Furnishings****479G Home Management****479H Household Equipment****479I School Lunch Management****479K Family Life Education****490A-D Independent Study (2-5, max 15)**

Prereq: perm. Independent study, advanced level, under direction of faculty member in area of specialization.

490A Family Studies & Community Service**490B Fashion & Retail Merchandising****490C Interior Design****490D Human Nutrition & Food Science****491A Understanding Play (4)**

Prereq: HCCF 160 or EDEL 200. (spring) Study of selected play theory for purpose of developing recreation therapy programs. (No credit if HREC 360 is taken.) 3 lec, 2 lab.

491B-F Seminar or Short Course in Human and Consumer Sciences

Advanced studies of research and recent developments in any of the five areas of home economics.

491B Foods & Nutrition**491C Home Economics Education****491D Housing & Management****491E Textiles & Clothing****491F Research****492 Household Equipment Techniques (3)**

Prereq: 391. (arranged) Critical analysis of home equipment relative to durability and effective use. 1 lec, 4 lab.

499B Field Work in Home Economics—Job Training (5-12)

Prereq: perm. (arranged) On-the-job training in area of specialization.

Interior Design (HCID)**180 Introduction to Residential Design (3)**

(fall, spring) Practical and aesthetic study of residential design, including design theory, materials and finishes, selection, and arrangement of furniture and accessories. 3 lec.

180A Introduction to Residential Design Studio (1)

Prereq: 180 or concurrent, major. (fall, spring) Investigation and application of design theory and residential space planning. 2 lab.

181 Color Theory (4)

Prereq: IT 104 or concurrent. (winter) Focuses on the characteristics, relationships, and theories of color based on major color systems. The visual and psychological effects of color and light, various color phenomena, and the formal and expressive elements of color for interior environments are explored. Color is studied in terms of furnishings and finishes as related to space, form, and light. 2 lec, 4 lab.

279 Rendering and Presentation Techniques (4)

Prereq: 180, IT 104. (fall) Emphasizes the rendering of texture, light, shadow, materials, and interior architectural details. Techniques include perspectives, elevations, isometrics, and sketching in various color and black-and-white media. Final presentation techniques, such as logo development, lettering styles, and point size, are stressed. 2 lec, 4 lab.

280 Interior Design Studio I (4)

Prereq: 279. (winter) Planning, designing, and specification of materials and furnishings for residential spaces. Lab experiences include executing plans, elevations, sample boards, cost estimates, rationales, and oral presentation. 1 lec, 6 lab.

281 Interior Design Studio II (4)

Prereq: 280. (spring) Investigation, design, and specification of materials and furnishings for retail interiors of a large scale size. Lab experiences include executing circulation plans, floor plans, elevations, details, perspectives, lighting, rationales, and oral presentations. 2 lec, 4 lab.

285 Contemporary Interior Design (3)

Prereq: soph. (spring) Investigation of the effects on interior design with the recent rise of the Postmodernist style, the demise of Modernism, and the latest changes and trends. 3 lec.

288 Lighting Fundamentals (3)

Prereq: major. (winter) Fundamental concepts of illumination. Examination of vision, light, color, tasks, and quality of light. Terminology, symbols, concepts, basic equations, and lighting calculations. Exploration of light sources and controls. Study of physiological and psychological considerations. 3 lec.

299 Professional Practices (2)

Prereq: major. (fall) Study of field of interior design concentrating on career opportunities and professional organizations. 2 lec.

340 Interior Design Computer-Aided Design (3)

(fall, winter) Investigation and development of design using computer-aided design (CAD) program for floor plans, furniture placement, 3-D views, and plotting using computers. 2 lec, 2 lab.

350 Principles, Materials, and Methods of Interior Construction (3)

Prereq: soph. (fall) Investigation of interior construction codes and building materials and their application. Field trips to actual construction sites when available. 3 lec.

350A Interior Construction Studio (2)

Prereq: IT 104. (fall) Design and development of construction, working drawings of an existing real building space, including plans, sections, details, schedules, and specifications. Lab experiences include measured drawings, client interviews, and preparation of contracts and documents. 4 lab.

351 Principles, Materials, and Methods of Interior Construction II (3)

Prereq: 350. (winter) Investigation and application of interior finish materials. Examines fire performance and furniture and finish specifications. Guest speakers from manufacturers, as well as field trips. 3 lec.

352 Business Procedures and Contract Documents (3)

Prereq: 351. (spring) Investigation and application of business procedures, types of business, insurance, liabilities, contractual agreements, and the support materials needed to operate a professional design practice. Professional presentation skills explored. 3 lec.

384 Interior Design Programming and Environmental Studies (3)

Prereq: 180. (winter) Investigation of design programming, including the psychological concept of personal space, crowding, territoriality, and privacy. 3 lec.

385 Home Furnishings Workshop (4)

Prereq: 113, 180 or 6 hrs ART and perm. (arranged) Lab problems in advanced techniques in home furnishings, including upholstering, slip-covering, and refinishing furniture.

389 Lighting Design and Application (3)

Prereq: 288. (arranged) Application and design of interior illumination systems. Use of manufacturer product catalogs and data. Consideration of special lighting applications. Further study of light quality and color effects. Use of lighting formulas and calculations. 3 lec.

400 Senior Seminar—Professional Evaluation (1-3)

Coreq with 499. Provides opportunity for students to demonstrate personal growth by sharing experiences in verbal and written form to faculty and fellow students.

480 History of Furniture and Interiors (3)

Prereq: jr. (fall) Qualities and styles of furniture and furnishings. Emphasis on periods of past and their aesthetic influence on present. 3 lec.

481 Contemporary Design in Furnishings (3)

Prereq: jr. (winter) Furnishings and interiors of present era: factors that have influenced development of contemporary design; important designers and their work. 3 lec.

482 The Decorative Arts (3)

Prereq: 480. (spring) Investigation of development of design in glass, mirrors, ceramics, textiles, rugs, metals, wallpaper, paintings, drawings, and prints. Historic and contemporary use of decorative arts. 3 lec.

483 Advanced Interior Design Studio I (4)

Prereq: 281. (fall) Investigation, design, and specification of materials and furnishings for offices. Office design will range from single-occupancy office to large multipurpose office space, including concept of office landscaping. Lab experiences include executing plans, elevations, perspectives, cost estimates, rationales, and oral presentations. 1 lec, 6 lab.

484 Advanced Interior Design Studio II (4)

Prereq: 281. (winter) Investigation, design, and specification of materials and furnishings for motels and restaurants. Lab experiences include executing plans, elevations, perspectives, cost estimates, rationales, and oral presentations. 1 lec, 6 lab.

485 Advanced Interior Design Studio III (4)

Prereq: 281, sr, major. (spring) Investigation, design, and specification of materials and furnishings for selected health care problem. Lab experiences include executing plans, elevations, perspectives, cost estimates, rationales, and oral presentations. 1 lec, 6 lab.

486 Advanced Interior Design Studio IV (4)

Prereq: 281, major. (spring) Investigation, design, and specification of materials and furnishings for historic preservation/restoration or adaptive re-use of historic structures. Lab experiences include executing plans, elevations, perspectives, cost estimates, rationales, and oral presentations. 1 lec, 6 lab.

499 Field Work—Interior Design (3-12)

Prereq: 280, 350A, 352. On-the-job training through cooperation with residential and contract firms for interior design majors.

Human Resource Management (HRM)

420 Human Resource Management (4)

Prereq: MGT 300 or perm. Survey of human resource management practices in areas of human resource planning, recruitment, selection, training and development, performance appraisal, compensation, discipline, safety audits, and personnel research. Includes applications in employment law and discussion of interface of line and staff responsibilities in organization.

425 Labor Relations (4)

Prereq: 420 or perm. Study of labor-management relationships, organization, campaigns, contract negotiations, grievance procedures, arbitration, and mediation and conciliation. Case studies and class exercises used extensively.

430 Compensation (4)

Prereq: 420, QBA 201, PSY 121, ECON 381, or INCO 301, or perm. Advanced study of human resource management function of compensation administration. Topics include job analysis, job evaluation, compensation surveys, pay structure design and implementation, benefits administration, and incentive programs.

440 Human Resource Training, Development, and Research (4)

Prereq: 420, QBA 201, PSY 121, ECON 381, or INCO 301, or perm. Advanced study of human resource management, functions of employee training and development, human resource research and costing. Topics include training needs analysis; training program design, implementation, and evaluation; human resource research methods; and costing human resource programs.

450 Recruitment, Selection, and Appraisal (4)

Prereq: 420, QBA 201, or ECON 381 or INCO 301, or perm. Advanced study of human resource functions of recruitment, selection, and performance appraisal in organizations. Topics include recruitment planning and strategy, predictors for employee selection, criteria for evaluating job success, validation strategies, equal employment opportunity and affirmative action programs, and design and administration of employee performance appraisal systems.

460 Human Resource Policy, Planning, and Information Systems (4)

Prereq: 425, 430, 440, 450. Advanced integrative course serving as capstone in study of human resource management. Students expected to apply their knowledge of human resource strategies, techniques, and constraints through cases, experiential exercises, and other projects. Role of human resource information systems as basis for planning and policy decisions discussed.

491 Seminar (1-5)

Prereq: perm. Selected topics of current interest in human resource management.

497 Independent Research (1-4)

Prereq: perm. Research involving some human resource management topic. Topic selection and study are under direction of faculty member.

498 Internship (1-4)

Prereq: perm.

Human Services Technology (HST)

The following courses for the A.A.S. in human services technology are available only on the Chillicothe campus.

102 Introduction to Human Services Technology (3)

Comprehensive introduction to knowledge and skills required for successful human services work. Topics include history and issues in human services, philosophical models, methods of service delivery, professional roles, and others.

110 Human Service Agencies (3)

Survey of the structure and functions of various human service agencies and programs. Program objectives and service delivery methods also will be described.

125 Psychological Assessment (4)

Prereq: PSY 101. Introduction to various assessment techniques used in human services. Includes interviewing and case history development in addition to psychological testing. Students will learn values and limitations of different assessment approaches. Ethical considerations also discussed.

150 Behavior Management I (3)

Prereq: PSY 101. Examines application of behavioral principles and techniques to various human problems. Emphasis on learning to objectively describe, measure, and analyze behavioral data. Ethical issues in behavior management discussed.

151 Behavior Management II (4)

Prereq: 150. Continuation of 150, exploring additional applications of behavioral techniques in both individual and group settings. Practice provided in contingency contracting and designing token economy.

152 Behavior Management III (4)

Prereq: 151. Continuation of 151 with emphasis on specific behavioral techniques such as progressive relaxation training and biofeedback. Discussion of cognitive methods of behavior change. Course also attempts to integrate use of behavioral techniques with other intervention approaches.

170 Group Dynamics I (4)

Prereq: 102 and perm. Explores theories and issues current in group dynamics. Provides exercises to demonstrate applications of various theoretical positions. Also discusses methods for implementing groups and outcome evaluation.

171 Group Dynamics II (3)

Continuation of 170 with emphasis on participation in variety of group exercises. Students involved both as participants and group leaders. Critical feedback and evaluation provided through videotaped group sessions.

200 Personal Management (3)

Examines management of one's own behavior and positive relationship with others in social context. Emphasis on empathy and understanding through literature and/or other modes of communication.

210 Practicum I (2)

Prereq: 110 and perm. Students will participate in 150 hrs of supervised field experience at local agency or institution. Provides opportunity to gain practical training and experience under guidance and supervision of professional agency staff.

211 Practicum Seminar I (1)

Opportunity for group discussion of special topics and problems related to student practicum experiences and professional development. Enrollment concurrent with 210.

220 Practicum II (2)

Prereq: 210. Provides additional opportunities to develop helping skills and to practice techniques learned in class. Students may opt for more intensive experiences at same agency as 210 or select another from those participating with HST program. 150 hrs required.

222 Practicum Seminar II (1)

Opportunity for group discussion of special topics and problems related to student practicum experiences and professional development. Enrollment concurrent with 220.

250 Practicum III (2)

Prereq: 220. Emphasis of final 150-hr practicum on continued skill development and broadening of experience. Students who have completed 210 and 220 at same agency expected to select another for final practicum.

255 Practicum Seminar III (1)

Opportunity for group discussion of special topics and problems related to student practicum experiences and professional development. Enrollment concurrent with 250.

275 Community Resources (3)

Topics include basics of program planning, organizing community and local support for programs; researching potential funding sources. Development of grant writing skills including the areas of budget preparation and program evaluation.

290 Special Problems (1-10, repeatable)

Prereq: perm. Provides opportunity for students to explore topics of interest on individual basis, or in structured courses developed as common interests arise. Additionally, credits may be awarded for advanced practicum experiences.

Indonesian

See Foreign Languages and Literatures.

Industrial Technology (IT)

100 Introduction to Industrial Technology (1)

Introduction to career opportunities, job functions, and professional organizations in industrial technology. Discussion of curriculum and departmental procedures. 1 lec.

101 Engineering Drawing I (3)

Basic theory and practice in engineering drawing. Topics include geometric construction, orthographic projection, dimensioning, and auxiliary, section, and pictorial views. Includes computer-aided drafting (CAD). 2 lec, 3 lab.

102 Engineering Drawing II (3)

Prereq: 101. Theory and practice of constructing three dimensional geometric models using CAD. Includes geometric dimensioning and tolerancing and fasteners. Preparation of detail and assembly drawings using 3-D CAD software. 2 lec, 3 lab.

103 Computer Applications in Industrial Technology (3)

Study of computer hardware and software including operating systems, word processing, spreadsheet, database, and computer graphics. Exercises will stress common applications of software in engineering and technology and use of networks to share data among applications. 2 lec, 2 lab.

104 Architectural Drawing (5)

Prereq: interior design major or perm. Basic techniques used in architectural drawing. Includes use of instruments, orthographic and isometric projection, floor plans, elevations, and sections. 5 lec.

110 Introduction to Manufacturing Processes (4) (2A)

A survey of industrial materials and processes with applications to current manufactured consumer products. Emphasis is placed on generic processes such as forming and separating as applied to a variety of industrial materials. 4 lec.

115 Metal Fabrication (3)

Prereq: 101, 110. Theory and practice of metal fabrication including the separation (shearing, cutting), forming (forging, bending, drawing), and assembly (mechanical fasteners, welding, adhesives) of sheet metal. Lab activities emphasize features possible in sheet metal products and the machines and tools required to provide those features. 1 lec, 4 lab.

117 Basic Metal Machining (3)

Prereq: 101. Study and application of basic machining processes used in manufacturing, including machine tool setup and operating procedures, metal cutting parameters, and machine tool capabilities. Also includes precision measurement and introduction to computer numerical control (CNC) and nontraditional machining. 1 lec, 4 lab.

121 Descriptive Geometry (3)

Prereq: 101. Theory and practical applications of graphic solutions of problems relating to points, lines, planes, and solids. Includes use of 3-D CAD geometric modeling software. 2 lec, 3 lab.

150 Wood Technology (3)

Prereq: 101, 110. Study of wood as an industrial material and manufacturing processes used to produce wood products. Includes material selection factors, component production, assembly and finishing processes. 1 lec, 4 lab.

201 Computer Graphics (3)

Prereq: 101. Study and application of advanced CAD software features including programming, meshes, and solid modeling. Comparison of raster and vector based graphics. 1 lec, 4 lab.

202 Technical Documentation (3)

Prereq: 101. Basic theory and practice of configuration control through documentation, including product and production specifications and engineering change orders. Emphasis on computer-aided document preparation. Includes document maintenance and control. 2 lec, 2 lab.

205 Geometric Dimensioning and Tolerancing (3)

Prereq: 101, 117. Theory and practice of geometric dimensioning as a precise engineering language to specify part geometry based on the function and relationship of assembled parts. 3 lec.

215 Metal Casting (3)

Prereq: 115, 150. Theory and practice of cast metals and foundry processes. Includes pattern design, pattern making, sand analysis, charge metal composition, flow analysis, and foundry-related documentation. 1 lec, 4 lab.

217 Advanced Metal Machining (3)

Prereq: 102, 103, 117. Theory and practice of production techniques for metal machining using computer numerical control (CNC) machine tools and electrical discharge machining (EDM). Includes part print analysis, process analysis and planning, and quality assurance factors. 1 lec, 4 lab.

220 Aircraft Powerplants (3)

Prereq: Aviation or airway science major or perm, PHYS 202, or 252. Theory, operation, and maintenance procedures for typical aircraft powerplants. Lab experiences focus on maintenance and inspection of reciprocating engines, with reference to manufacturers' data and FAA regulations. 1 lec, 4 lab.

221 Power Transmission (3)

Prereq: 102, PHYS 201 or 251. Theory and practical applications of power and energy devices used in various industrial applications. 2 lec, 2 lab.

308 Industrial Plastics (4)

Prereq: 102, 117, 150, CHEM 122 or 152. Study of plastics materials and manufacturing processes. Includes material properties and applications. Emphasis on major industrial processes including injection molding, extrusion, and thermoforming. 2 lec, 4 lab.

309 Plastics Tooling (3)

Prereq: 308. Study of tooling required for extrusion, injection molding, compression molding, thermoforming, and other production processes used to produce plastic parts. 1 lec, 4 lab.

318 Computer Numerical Control (3)

Prereq: 217. Advanced part programming for computer numerical control (CNC) machine tools. Labs emphasize conversational and EIA/ISO programming, culminating with part program generation via computer-aided design and machine (CAD/CAM) software. 1 lec, 4 lab.

320 Hydraulic Controls (3)

Prereq: 221. Application of hydraulic principles to common industrial uses for power transmission and mechanism control. Includes a study of hardware and circuitry. 1 lec, 4 lab.

332 Electronics I (3)

Prereq: 221, PHYS 202 or 252. Theory and application of electricity and magnetism. Includes DC and AC circuit analysis, series and parallel circuits, passive devices and their characteristics, filters, electronic devices, and the generation and distribution of electric power. Includes study and use of semiconductors, diodes, and transistors. Lab experience in constructing and testing analog circuits. 2 lec, 2 lab.

333 Electronics II (3)

Prereq: 332. Theory and application of basic digital electronics. Includes integrated circuits, binary logic gates, encoders/decoders, counters. Emphasis on industrial applications of digital electronic systems. Lab experience in constructing and testing digital circuits. 2 lec, 2 lab.

347 Plastics Processing (3)

Prereq: 308. In-depth analysis of selected plastics processes including essentials of product/process design and their impact on product quality. 1 lec, 4 lab.

351 Production Tooling (3)

Prereq: 150, 217. Theory and practice of designing and constructing tooling to improve productivity and quality in various manufacturing applications. Computer-aided design and machining (CAD/CAM) software is used. 1 lec, 4 lab.

361 Product Design (3)

Prereq: 101. Study of stages in product design. Includes fundamental design, analysis, and simulation; design for manufacturability, reliability, standardization, and design communication. Lab activities emphasize use of computers in the design process. 2 lec, 2 lab.

363 Quality Assurance (3)

Prereq: MATH 250B. Theory and practice of quality assurance principles in manufacturing. Includes statistical process control, process capability, and quality management. 3 lec.

370J Professional and Technical Writing (3) (1J)

Prereq: jr. Preparation, organization, writing, and editing of documents for manufacturing and business activities. Satisfies junior level English composition requirement. 4 lec.

390 Industrial Materials (3)

Prereq: 308. Advanced theory and application of common industrial materials. 3 lec.

395 Industrial Work Experience (1)

Prereq: perm and approval required prior to registration. Credit for work experience related to B.S.I.T. degree. Minimum 10-week term of full-time employment required. Written report required. May be repeated for maximum of 3 credits.

400 Senior Seminar (1)

Prereq: sr. Discussion of projected employment opportunities, career enhancement activities, and professional development options in industrial technology. 1 lec.

435 Digital Instrumentation and Controls (3)

Prereq: 320, 333. Theory and application of digital controls used in manufacturing. Includes development and implementation of relay logic, theory of closed-loop control. Introduction to sensors, signal conditioning circuits, D-A and A-D conversions. Lab experiments emphasize use of programmable logic controllers to achieve sequencing of machines and equipment. 2 lec, 2 lab.

452 Computer Integrated Manufacturing (3)

Prereq: 308, 363, GPN 310. Theory and application of computer technologies used in manufacturing includes computer integration of design, process control, production and inventory control, material handling, machine control systems, and communications. 2 lec, 2 lab.

454 Automatic Identification (3)

Study of methods and systems used to automatically identify objects, includes bar coding, optical character recognition, magnetic stripe, radio frequency, and voice data entry systems. Various industrial applications are studied. Lab experiences emphasize bar coding technology. 2 lec, 2 lab.

462 Product Manufacturing (5)

Prereq: 351, 452. Development and implementation of a plan for manufacturing a product. Includes product planning and control, resource planning, product cost considerations, facilities planning, and working design and construction. 3 lec, 4 lab.

464 Robotic Applications (3)

Theory and practical applications of robots. Includes robot sensors, sensors and feedback mechanisms, and robot/computer communications. Lab activities emphasize cell-line and off-line programming and solving robotic cells. 1 lec, 4 lab.

483 Industrial Safety (3)

Prereq: sr. Study of organized industrial safety programs, including historical and social perspectives. 3 lec.

484 Maintenance Systems (3)

Study of organized industrial maintenance systems. Includes environmental control and structural, mechanical, and electrical requirements. 3 lec.

490 Special Investigations (1-4, max 4)

Prereq: perm. Independent concentrated study in a specific area under the direction of a faculty member. Requires permission of faculty member prior to registration.

491 Special Topics in Industrial Technology (1-4)

Prereq: perm. Selected topics that are current and relevant to industrial technology. May be repeated.

International Studies (INST)

The following courses are available through the Center for International Studies. Three are interdisciplinary courses focusing on Africa (113), Asia (103), and Latin America (121). These courses, which provide an introduction to the regions, satisfy social science requirements, University General Education Tier II (Third World cultures) requirements, as well as major and certificate requirements.* In addition, 80 faculty members in the various departments on campus teach over 150 courses each year that relate to Africa, Asia, Latin America, and Europe.

The Center for International Studies is responsible for the following interdisciplinary courses:

103 Modern Asia (5) (2T)

Introduction to history, cultures, and current problems of civilizations of Asia. Interdisciplinary survey dealing with China, Japan, India, and Southeast Asia (Burma, Thailand, Vietnam, Cambodia, Laos, Malaysia, Singapore, Indonesia, and Philippines).

113 Modern Africa (4) (2T)

Interdisciplinary introductory survey of Africa, its culture, history, and modern development. Disciplines included: anthropology, art, dance, economics, education, geography, history, linguistics, literature, and political science.

121 Interdisciplinary Survey of Latin America (4) (2T)

Introduction to Latin America through geography, politics, sociology, economics, literature, and art. Special emphasis given to 20th-century issues, problems, and developments.

350 Focus on Malaysia (5)

Introduction to geographical, historical, demographic, cultural, and political settings of Malaysia within the wider context of Southeast Asia. A survey of the historical development of Malaysia with emphasis on the period from the Second World War.

490 Tun Razak Seminar: Southeast Asia Studies (5)

The Tun Razak Seminar is designed to enable the holder of the Tun Abdul Razak Chair to present his or her particular specialization. This means the content of the course could be different from year to year, depending on the discipline of the holder. The focus of the course will be on Malaysia as well as other parts of Southeast Asia.

495 Internship (1-15)

This course is designed to allow for a practical experience in an international organization in the U.S. or abroad to complement the theoretical base supplied in area studies and comparative cultures courses. The applied experience will allow the students to see the practical way in which cross cultural issues and second language usage are manifested in a work environment. The internship experience will also allow the student to identify personal learning goals that will enhance their career prospects.

In cases where the required BAIS study abroad experience is impossible, an internship in the U.S. may, with the approval of the student's academic advisor, substitute for the study abroad. The student must identify an internship that provides an opportunity for utilization of the student's second language.

*For degree requirements, see International Studies in the College of Arts and Sciences section of catalog

Interpersonal Communication (INCO)

101 Fundamentals of Human Communication (4) (2H)

Introductory analysis of oral communication in human relationships with focus on variety of contexts including dyadic, small group, and public communication experiences. Serves as survey of human communication processes. Mass lec.

103 Fundamentals of Public Speaking (4)

Prereq: 101 required for INCO majors only. Principles of public speaking, practice in presenting informative and persuasive speeches with emphasis on communicative process.

104 Listening (4)

Improvement of listening skills through intensive practice.

117 Beginning Forensics (1-3)

Students prepare for competition in oral interpretation, public speaking, and/or debate as part of the Ohio University Forensics Team. Travel to a weekend tournament at another university is required to earn credit. Number of credits depends upon number of performances prepared for competition.

205 Group Discussion (4)

Prereq: 101 or 103. Study of structure and dynamics of small groups, nature and functions of leadership, group participation, problem solving, and decision making; frequent participation in group discussion activities.

206 Communication in Interpersonal Relationships (4)

Prereq: 101 or 103. Provides maximum experience in study of communication in social interaction. Exploration of communication variables, and skill development in message generation in 1-to-1 informal settings.

215 Argumentative Analysis and Advocacy (4)

Basic principles of argumentative discourse including concepts of presumption, burden of proof, rhetorical forms of reasoning, and evidence. Practice in applying these principles.

217 Advanced Forensics (1-3)

Prereq: 117. Students prepare for competition in one or more individual events and/or debate as part of the Ohio University Forensics Team. Attendance at tournaments is expected.

220 Oral Interpretation of Literature (4)

Techniques of oral interpretation and development of adequate intellectual and emotional responsiveness to meaning of literature.

234 Introduction to Communication Theory (4)

Prereq: soph, 101, College of Communication major, or perm. Survey of selected humanistic and scientific approaches to communication studies. Emphasis on philosophical bases of communication theory.

240 Health Communication (4)

Concerned with issues in theory and practice of health communication. Topics include provider-patient communication, organizational communication in health care delivery systems, communication in community/consumer health education, information technologies in health communication, communication in support systems for the elderly, disabled, and terminally ill, and communication training for health care professionals.

245 Introduction to Organizational Communication (4)

Prereq: 234. Analysis of traditional and contemporary theories of communication in context of modern complex organizations (government, industry, education, etc.). Consideration and explication of such pertinent concepts and variables as message, channel, networks, information, information flow, communication climate, communication audit, etc.

250 Introduction to Rhetorical Theory (4)

Prereq: soph. Ancient and modern rhetorical communicative concepts and theories.

297T Interpersonal Communication Tutorial (1-15)

Prereq: Honors Tutorial College and perm

298T Interpersonal Communication Tutorial (1-15)

Prereq: Honors Tutorial College and perm.

299T Interpersonal Communication Tutorial (1-15)

Prereq: Honors Tutorial College and perm.

300 Field Research Methods in Communication (4)

Prereq: 301 or perm. Discussion and application of communication data collection methods such as content analysis, participant observation, Q-analysis, questionnaire design, sampling procedures, case studies, and unobtrusive measures.

301 Empirical Research Applications in Communication (4)

Prereq: MATH 113. Provides undergraduates with principles and basic skills necessary to criticize research literature; develops minimal proficiencies in structuring designs basic to descriptive and experimental studies, including data collection, analysis, and presentation techniques in communication research.

302 Communication Research Methods (4)

Prereq: 234, 245, 301. Examines the relationship between theory and different processes for the generation of knowledge. Various research activities such as computer utilization of library materials, quantitative and qualitative tools, and computer technology will be examined.

303 Rhetorical Analysis and Criticism (4)

Prereq: 250 or perm. Studies the approaches and methods of modern rhetorical critics. Emphasizes research and writing skills for a critical evaluation of rhetorical artifacts.

304 Principles and Techniques of Interviewing (4)

Prereq: jr. Methods used in two-party, face-to-face oral communicative situations commonly encountered in organizational and professional environments. Intensive practice through role-playing and real-life interviews in and out of class, emphasizing skills involved in giving and getting information, persuasion, and job-employment situations.

306 Interpersonal Conflict Management (4)

Prereq: 101. Analysis of the communication dynamics involved in managing interpersonal and organizational conflicts. Examination of theory and research related to conflict management. Emphasis on case studies and role-playing conflicts in various interpersonal and group settings.

315 Advanced Argumentation and Debate (4)

Prereq: jr. Purpose of course is to familiarize student with argumentation, rhetoric, and communication skills used in legal process. Advanced argumentation and debate course with legal issues used as basis for arguments.

342 Communication and Persuasion (4)

Process of communication and attitude change, survey of general theories and typical research, and analysis of contemporary persuasion problems.

351 Courtroom Rhetoric (4) (25)

Famous cases and methods of communication of masters of courtroom and judicial oratory. Cases, trials including Cicero, Strafford, Charles I, Erskine, Hastings, Marshall, Webster, Darrow, Sacco-Vanzetti.

352 Political Rhetoric (4) (25)

Rhetorical techniques found in political discourse are examined. Topics covered include symbolic politics, the place of myth in politics, and the political elements of film, literature, and television.

353 Contemporary Rhetoric (4) (25)

Methods of communication of masters of period. Figures: Hitler, Mussolini, Lenin, Wilson, Churchill, Roosevelt, Kennedy, King. Movements: rhetoric of revolution, nationalism, fascism, socialism, communism, republicanism.

397T Interpersonal Communication Tutorial (1-15)

Prereq: Honors Tutorial College and perm.

398T Interpersonal Communication Tutorial (1-15)

Prereq: Honors Tutorial College and perm.

399T Interpersonal Communication Tutorial (1-15)

Prereq: Honors Tutorial College and perm.

405 Meeting and Conference Planning (4)

Prereq: jr. 205. Theoretical and methodological approaches to principles of group and conference leadership. Emphasis on leadership methods and skills as they apply to group and conference situations.

406 Advanced Interpersonal Communication (4)

Prereq: 206 or perm. An examination of communication theories relevant to the study of interpersonal communication. Attention will be given to communication involved in initiating, developing, maintaining, repairing, and disengaging from interpersonal relationships.

410 Cross-Cultural Communication (4)

Prereq: jr. Analysis of processes and problems of communication as affected by national cultures; effects of differences in language, values, meaning, perception, and thought.

420 Gender and Communication (4)

Prereq: 101 or 206 or equiv. Explores variations in communicative behaviors related to biological sex and psychological gender. Examines female and male communication in intrapersonal, interpersonal, small group, public, and organizational settings.

421 Instructional Training and Development in Communication (4)

Prereq: 245. Provides upper-level undergraduates with opportunity to learn how to design instructional training programs beginning with the needs assessment and continuing through the evaluation phase. Combination of lecture/discussion and student presentations.

422 Communication in the Family (4)

Prereq: 101 or 206, jr. Examination of the communication concepts basic to understanding interaction in the family. Provides a framework for analysis of family communication. Explores communication issues that relate to family interaction, including conflict, power, intimacy, and the development of relationships. Presents a model of effective communication in the family. Consideration of verbal and nonverbal communication behaviors.

430 Communication and the Campaign (4)

Prereq: 342. Theory and practice of persuasion and management in campaign situations (political, religious, information, fundraising, advertising, etc.). Students may participate in local, state, or national campaigns, or do an in-depth research paper.

433 Applications of General Semantics (4)

Chief formulations from general semantics and their applications to field of communication.

442 Responsibilities and Freedom of Speech in Communication (4)

Prereq: jr. Ethical and rhetorical implications of constitutional guarantees on political, social, and religious speech; analysis of effects of famous legal cases on freedom of speech.

445 Senior Practicum in Organizational Communication (4)

Prereq: sr, mjr, 245, 301. Students assume roles in an internal real-to-life organization and engage in a consulting or training project with actual client. Opportunity to apply theories and skills developed in major.

452 Psychology of Speech (4)

Prereq: jr. Psychological principles active in communication such as concept-reference, meaning, vocal, verbal and nonverbal cues. Neurophysiological mechanism and socio-psychological-linguistic dimensions of speech examined.

470 Effective Classroom Communication for Teachers and Trainers (4)

Prereq: 1 yr teaching K-12. Course focuses on interpersonal communication in classroom environment, with particular emphasis on communication between students and teachers. Taught in workshop format only during summer session.

471 Nonverbal Communication for Teachers and Trainers (4)

Course focuses on the nonverbal behaviors used by students and teachers/trainers, and the impact of those behaviors on student/teacher relationships. Taught in workshop format only during summer session.

472 Communication in Your Workplace: Strategies for Teachers and Administrators (4)

Course focuses on the organizational communication variables that operate within the classroom, school, community, and state. Increases the abilities of teachers and administrators to understand and respond to the various organizational constituencies to which they are accountable. Taught in workshop format only during summer session.

473 Effective Listening and Small Group Communication for Teachers and Trainers (4)

Course focuses on steps to more effective listening and working in small groups for teachers and trainers. Designed to familiarize teachers and trainers with the keys to active listening, the stages of group development and decline, how to manage groups, and improving their cooperation and productivity. Course is taught in concentrated lecture-seminar format during summer session only.

497 Internship (1-15)

Prereq: perm. Supervised practical training and experience in selected professional environments for INCO undergraduate students.

497T Interpersonal Communication Tutorial (1-15)

Prereq: Honors Tutorial College and perm.

498 Independent Study (1-4, max 12)

Prereq: written proposal, perm. May be repeated for credit.

498T Interpersonal Communication Tutorial (1-15)

Prereq: Honors Tutorial College and perm.

499T Interpersonal Communication Tutorial (1-15)

Prereq: Honors Tutorial College and perm.

Italian

See Foreign Languages and Literatures.

Japanese

See Foreign Languages and Literatures.

Journalism (JOUR)

105 Introduction to Mass Communication (4) (25)

All forms of mass communication including newspapers, magazines, radio-television, book publishing, public relations, advertising, and photojournalism. Begins with analysis of communication process and ends with media career opportunities.

133 Precision Language for Journalists (4)

Intensive drill in grammar, punctuation, syntax, and usage in contexts designed especially for future journalists. Extensive attention to media examples. Diagnostic tests during first week place each student to work at own level, whether very basic to prepare for beginning journalism courses or more advanced for those who already show considerable ability but would like to sharpen language skills for advanced courses.

189 Journalism Workshop (1-4)

Workshop on selected topics of journalism and mass communication. May be repeated to total 6 hrs of credit.

221 Graphics of Communication (5)

Prereq: majors only, or perm. Creative and practical aspects of typography, layout, and design of printed communication.

231 News Writing (4)

Prereq: typing proficiency and C or better in 133. Methods of gathering and evaluating news and writing typical news stories. Practice work covering assignments and preparing copy.

233 Information Gathering (3)

Prereq: 133. Gathering of information by journalists and other mass communicators from various sources, such as interviewing, use of libraries, government documents, computerized data bases, syndicated research, and business documents. Prepares communicators to conduct research and to assess and use material in media-related decision making.

235 Picture Editing (3)

Prereq: 221, 231. Principles and practices of picture editing. Includes consideration of picture sources, assignment, and handling; photographic technique and aesthetics; legal and ethical factors; visual idiosyncrasies of various media.

250 Advertising Principles (4)

Major factors in development of advertising programs.

270 Introduction to Public Relations (3)

Prereq: soph, PR or advertising major, or perm. Provides an overview of the many facets of public relations, its history, development, practice, and application. Looks at the process of public relations, including the planning, implementation, and evaluation of public relations campaigns. Surveys techniques, strategies, and tactics used by public relations practitioners. Analysis of case studies.

311 History of American Journalism (4)

Prereq: major, or perm. Development of newspaper, magazine, and broadcast journalism from colonial period to present. Social, political, economic, and mechanical aspects.

321 Print Advertising and Layout (4)

Prereq: 221, 231, 250, and major, or perm. See title.

323 Advertising Practice (2)

Prereq: 321, perm. Lab work in preparing advertising for local advertisers.

325 Photojournalism (3)

Prereq: 231, or perm. Basic principles and practices of photojournalism for newspapers, magazines, and television. Includes consideration of roles of photographers and picture editors in communication and their relationships with other members of editorial team and mechanical departments of publications. Students shoot, process, and print pictures on assignment.

326 Advanced Photojournalism (3)

Prereq: 325, portfolio review, and perm. See title.

327 Color Photography (3)

Prereq: 326 and perm. Advanced course in photojournalism designed to give students working knowledge of color photography and processing.

331 Reporting Contemporary Issues (3)

Prereq: 231. Research, reading, and speech reporting on current social problems. Emphasis on analytical skills and ability to report in depth for mass audience.

332 Reporting Practice (2)

Prereq: 231, perm. Assignments at Athens Messenger in city and sports reporting, along with features.

332B Reporting Practice (2)

Prereq: 231. Assignments at Dept. of African American Studies in news and feature reporting about black community.

332C Reporting Practice (2)

Prereq: 231, perm. Class serves as University's Student News Bureau, writing stories about accomplishments of other University students for release to hometown newspapers. Students handle entire process, from generating ideas through mailing releases.

333 News Editing (4)

Prereq: C or better in 231. Copyreading, headline writing, news selection, and layout of news pages.

334 Editing Practice (2)

Prereq: 333, perm. Copyreading on Athens Messenger. Handling of local correspondence, wire copy, and making out make-up problems.

336 Advanced Picture Editing (3)

Prereq: 325, 335, and perm. Advanced course in picture editing designed to equip students with basic knowledge and working skills necessary for employment on newspaper or magazine picture desk.

350 Radio Broadcast News (4)

Prereq: 231 and 233. Intensive writing and reporting skills development for radio news broadcast.

352 TV Broadcast News (4)

Prereq: 350. Intensive writing and reporting skills development for television news.

353 Broadcast News Practice (2)

Prereq: 352 or perm. Preparation of news for broadcast. Students serve as assistants in newsroom of University's broadcasting stations or, by special arrangement and perm, in other stations.

362 Community Newspapers (3)

Prereq: 333 or perm. Editorial and business practices of suburban weeklies and dailies.

363 Reviewing and Criticism (3)

Prereq: 231 and major, or perm. Written criticism of fine and popular arts. Special role of critic who serves both as reporter and evaluator of artistic works for lay audience.

370 Media Relations and Publicity (4)

Prereq: 221, 270, 333; all C or better. Focus on publicity function of public relations and on skills in both public relations writing and media contact.

375 Advertising Media Planning and Buying (4)

Prereq: 250, jr or perm. Strategy, techniques, and problems of planning and buying media. Learning to buy space and time effectively and economically. Learning use of syndicated sources of media information.

411 Newspaper and Communications Law (3)

Prereq: C or better in 231. Principles and case studies in communications law, constitutional guarantees, libel, privacy, contempt, privilege, copyright, and government regulatory agencies.

412 Ethics, Mass Media, and Society (3)

Prereq: C or better in 411, or perm. Social responsibility of journalistic or other mass communicator. Professional codes, responsibility of media for social change, reaction to political and economic pressures.

421 Graphic Production Processes (5)

Prereq: 221 and perm. Advanced study of all processes for reproducing printed communication. Theory and lab.

422 Advertising Production (4)

Prereq: 221, 321, or perm. Techniques and problems in methods of advertising production.

424 Direct Response Advertising (3)

Prereq: 250, MKT 301, or perm. An introduction to the scope of direct marketing and direct response media including direct mail, broadcast and print advertising, catalogs, co-ops, telemarketing, inserts, and videocassettes.

430 Magazine Editing and Production (4)

Prereq: 221, 233. Theory and techniques of magazine editing and production, including analysis of magazine industry and of specific magazines and audiences they serve. Editorial objectives and formulas, issue planning, article selection, layout, illustration, typography, printing, and distribution. Magazine project required.

431 Magazine Production Practice (3)

Prereq: 430, 441, repeat with perm, max 9 hrs. Practice course on E.W. Scripps School of Journalism's quarterly lab magazine. Each student assigned specific responsibilities in magazine editing, production, advertising, and circulation.

432 Specialized Business Magazines (3)

Prereq: sr or perm. In depth study of professional, business, industrial, and technical magazines. Consideration of all types of publishing problems, usually as case studies.

441J Magazine Feature Writing (4) (1J)

Prereq: 231, 233 or perm; repeat, different instructors, max 8 hrs. Writing and marketing factual magazine feature articles of various types. Finding subjects, securing photographs, writing articles, and surveying markets.

442 Advanced Magazine Feature Writing (3)

Prereq: 441. Writing and marketing magazine articles. Emphasis on specialized markets.

443 Advanced Magazine Editing (3)

Prereq: 431. Students edit real manuscripts from how-to to personal narratives. They learn to recognize weaknesses, devise solutions, and interact with writers. Ethical dilemmas posed by more experimental forms of magazine journalism also are covered.

450 Advertising Copy Writing (3)

Prereq: 221, 231, 250, and advertising or PR majors, or perm. Effective persuasion in art media.

452 Broadcast News Production (4)

Prereq: 352. Principles and practices of radio and television news production. Emphasis on blending news judgment with production techniques and tools.

455 Seminar in Broadcast News (3)

Prereq: 350, 352. Discussion of problems—operational, social, economic, legal, and ethical—faced by broadcasters reporting public affairs.

458 TV News Practicum (4)

Prereq: 352. Practicum in preparation and presentation of TV newscast. Students select news material including video, format, and script for newscast, then deliver on air. Students will rotate through various newsroom positions during quarter.

459 Advanced TV News Practicum (3)

Prereq: 452, 458. Advanced practicum in preparation and presentation of TV newscast. Students involved in selecting, editing, scripting, and formatting for on-air newscasts. Students also appear on air and assume management responsibilities.

461 Specialized Journalism (3)

Prereq: sr and perm. Seminar approach to individual study of journalistic areas of special interest to individual students.

462 Internship (3)

Prereq: perm before beginning internship. Conference course for students who have completed internship with approved organization. Student will submit comprehensive report analyzing internship experience.

464 Reporting of Public Affairs (3)

Prereq: 231, sr, major, or perm. Problems of preparing in-depth, interpretive, and analytical reports on public affairs for mass media, with practice in writing such reports. Focus mostly on contemporary controversial issues.

465 The Editorial Page (3)

Prereq: 333, sr, major, or perm. Editorial page in opinion formation. Problems of content selection and presentation. Extensive writing of analytical and persuasive editorials and interpretive articles in depth.

466 International Mass Media (4)

Prereq: sr, and major, or perm. Development and operations of world mass communication channels and agencies. Comparative analysis of media, media practices, and flow of news throughout world. Relation of communication practices to international affairs and understanding.

467 Foreign Correspondence (4)

Prereq: sr, and 466, or perm. Role of foreign correspondent in news gathering. History, scope, techniques.

468 Column Writing (3)

Prereq: 231, 333, or perm. The study of newspaper columnists, past and present, with extensive writing of various kinds of columns.

470 Sportswriting (3)

Prereq: 231, 333, or perm. A look at sportswriting from lead to 30—the good, the bad, and the ugly of life in a sports press box.

471 Public Relations Principles (4)

Prereq: 370, sr, and PR major or perm. Public relations planning and techniques; selected communication studies and theories. Polling, defining objectives, and analysis of public relations messages.

472 Advanced Public Relations (4)

Prereq: 471, or perm. Planning public relations programs and projects, including selection of audiences, messages, and media, and evaluation of effects. Project in area of student's interest.

475 Advanced Advertising Media Planning and Buying (4)

Prereq: 250, 375, jr. Media theories appropriate in specific client advertising situations. Use of computer software for solving media problems. Review, creation, and testing of quantitative and qualitative media models, advanced work in media objectives, strategy, tests, and execution of media plans and evaluation.

476 Advertising Research (4)

Prereq: 250, sr. Original research in advertising, research methods and procedures, and syndicated/secondary research. Exploration and use of computing center to complete advertising research project.

477 Media Sales and Promotion Management (4)

Prereq: 250, 321, 482. Overview and professional projects concerning media sales and promotion management. Development of sales promotion plan and professional advertising sales presentations.

481 Newspaper Management (3)

Prereq: 333. Problems in publishing affecting all departments.

482 Radio-Television Advertising and Management (4)

Prereq: 221, 231, and 250, or perm. See title.

483 Magazine Publishing and Management (3)

Prereq: 430. An introduction for editors to audience, circulation, industry trends, repositioning, and launching of magazines. History of the rise and fall of publishing empires, including the financial, legal, and ethical realities that shaped them.

484 Supervising School Publications (4)

Prereq: 12 hrs or perm. Conference course for prospective advisors of school newspapers, yearbooks, magazines, and other publications. Purposes and functions, legal aspects, staff selection, content, copy, layout, production, printing, advertising, photography, business.

485 Journalism in the Secondary School Curriculum (4)

Prereq: 9 hrs of journalism. Intensive study and analysis of appropriate content for high school journalism courses. Planning course outlines and curricula.

486 Advertising Campaigns (5)

Prereq: 14 hrs advertising, advertising or PR major, and perm. Capstone course in advertising sequence to provide thorough understanding of basic elements of advertising campaigns. Includes creation of campaign.

488 Humor Writing for Print, Broadcast (3)

Prereq: jr or sr, perm. Theory and techniques of writing humor for newspapers, magazines, speeches, and other media.

489 Journalism Workshop (1-4)

Selected topics of journalism and mass communication, including newspapers, yearbooks, photojournalism, advertising, magazines, public relations, and publications advising. May be repeated to total 10 hrs of credit.

490 Independent Study (1-4)

Prereq: written proposal and perm. See title. May be repeated to 15 hrs credit.

491 Research in Journalism and Communications (1-15)

Prereq: perm.

492 Seminar (1-4)

Prereq: perm. Selected topics of current significance. May be repeated with different topics to 12 hrs credit.

Latin

See Foreign Languages and Literatures.

Latin American Studies

See International Studies.

Law Enforcement Technology (LET)

The following courses for the A.A.S. in law enforcement technology are available only on the Chillicothe campus.

100 Introduction to Law Enforcement Technology (3)

Philosophy and history of law enforcement; overview of crime and police problems; organization and jurisdiction of local, state, and federal law enforcement agencies; survey of professional career opportunities and qualifications required.

110 Police Role in Crime and Delinquency (3)

Extent and distribution of crime and delinquency, with special emphasis on basic factors and conditions contributing to problem; some case study and evaluation of community resources in prevention field and detailed review of role of school, family, religious institutions, law enforcement agencies, courts, and correctional institutions. Part law enforcement agencies play in juvenile delinquency control, organization and functions of related juvenile agencies, laws governing handling of juvenile offenders, and brief resume of juvenile court and its jurisdiction.

120 Constitution, Criminal, and Civil Law (3)

Study of U.S. Constitution and amendments thereto by text material and case method system; major emphasis on freedom of speech, search and seizure, arrest and detention, interrogation and confession, self-incrimination, right to counsel, double jeopardy, and due process situations.

130 Interviewing and Report Writing (3)

Examination of interviewing and interrogation procedures employed by law enforcement for obtaining information, plus practical experience in use of methods. Mechanics of writing reports, including collecting information and taking statements, writing descriptive narratives, and report revision.

140 Introduction to Criminalistics (3)

Survey of systematic collection of evidence and potentialities and recommendations of applied science to criminal investigation. Includes demonstration of techniques used in processing criminal evidence and practical experience in selected crime lab methods.

150 Police Patrol Operations (3)

Focus on patrol function. Examination of purposes, methods, techniques, and types of patrol. Overview of support services, examination of various police services and public assistance, and analysis of deployment procedures and practices as related to overall mission of police patrol.

200 Procedures, Rules, and Test of Evidence (4)

Prereq: 120 or perm. Instruction designed to acquaint officer with court system in Ohio, its functions, authority, and duties. Explains workings of all courts of record and provides description of mayor's courts which are only courts not of record in State of Ohio. Kinds and degrees of evidence. Admissibility of evidence in criminal court cases, materiality and competency of evidence. Distinction between admissions and confessions; exceptions to hearsay rule; types of evidence.

210 Cybernetics (3)

Application and use of computers and/or automated systems for rapid storage and retrieval of information. Types of electronic data processing systems and their compatibility with contemporary police operations explored.

220 Court Procedures and Processes (3)

Case preparation, officer testimony and demeanor in court, effective preparation and presentation of criminal evidence, trial procedures, utilization of written notes, and reaction to cross examination.

230 Police Community Relations (3)

Nature of relationships between police and various segments of community; racial and/or ethnic minorities, news media, clergy, and youth explored. Historical reasons for present dilemma and suggested changes to alleviate these problems.

240 Law Enforcement, Administration, and Supervision (3)

Prereq: 2nd yr law enforcement technology students or law enforcement personnel. Principles of law enforcement agency administration. Organization, planning and research, management, personnel management, training, and public relations. Administrative functions in vice control, crime delinquency prevention and control, patrol, investigation, communications, statistics, and records.

250 Vice and Narcotic Control (3)

Exploration of history, identification, and effects of narcotics. Narcotic and vice problem as it exists and penal statutes affecting control of narcotics and vice studied.

260 Criminal Investigation (3)

Fundamentals of investigation; crime scene search and recording; correction and preservation of physical evidence, scientific aids, modus operandi, sources of information, interviews and interrogation, follow-up, and case preparation. 3 lec, 2 lab.

270 Arrest, Search, and Seizure (3)

Prereq: 200. In-depth discussion of moral and legal obligations in use of police weapons. Includes legal provisions, safety precautions, and restrictions in use of firearms. Advanced theories and application, police combat shooting, all-weather firing, and new developments in police weaponry. Training for student in lawful methods of search and seizure and discussion of search of persons, places, and things, with emphasis on legality. Applicable court decisions and rulings presented and discussed. 3 lec, 2 lab.

280 Traffic Enforcement, Education, and Engineering (3)

Prereq: 102. Law relating to registration of motor vehicles, driver's license, Vehicle Code sections most often encountered and violated, regulation and traffic control, traffic accident investigation, traffic accident report forms, types and uses.

290 Special Problems (3)

Provides opportunity for students to explore topics of interest on individual basis, or in structured courses developed as common interest arises.

Library Science

See Education—Curriculum and Instruction.

Linguistics (LING)

The requirements for a major in linguistics consist of 46 credit hours beyond 270; 34 hours must be in core linguistics courses, and 12 hours are to be chosen from other linguistics courses, with these courses clustered to form a concentration. Possible concentrations include teaching English as a second language, the use of computers in language teaching, sociolinguistics, psycholinguistics, and theoretical linguistics. In addition, courses in other departments in the social sciences, humanities, and communications will be recommended as external electives. Knowledge of a foreign language equivalent to two years of college-level study is required; study of a second foreign language is recommended. Transfer of credits from other programs or from other departments at Ohio University will be accepted upon approval of the department chair. Required core courses are the following: 275, 280, 350, 460, 470, 475, 485, and 495.

A minor in linguistics requires a minimum of 24 hours, with at least two courses at the 400 level. Areas of specialization include general linguistics, sociolinguistics, and teaching English as a second language.

270 The Nature of Language (5) (25)

Nontechnical introduction to basic nature of human language: its sound patterns, structure of words and sentences, nature of meaning, children's acquisition of language, animal communication, ways languages change, etc.

275 Introduction to Language and Culture (4)

Prereq: soph or above. Study of similarities and differences of language behavior in variety of cultural contexts.

280 Language in America (4)

Prereq: soph or above. Analysis of similarities and differences in language behavior in America, including dialects and immigrant languages.

350 Introduction to General Linguistics (5)

Prereq: jr or sr. Technical introduction to methods of language description, and survey of relationships and applications of linguistics to other disciplines.

370 Introduction to Psycholinguistics (4)

Prereq: 270 or 350 or perm. Study of linguistic behavior and psychological mechanisms responsible for it.

390 Language of Women and Men (3)

Prereq: jr or perm. American speech as used by women and men in terms of linguistic and social factors.

395 Introduction to Area Linguistics (3-5)

Prereq: perm. Investigation of linguistic characteristics of specific group or subgroup of languages within Malayo-Polynesian or African families.

440 Introduction to Bilingualism (4)

Prereq: 270 or 350 or perm. Introduction to bilingual theories from psychological, sociological, educational, and linguistic perspectives.

445 Instructional Materials in Bilingualism (5)

Prereq: 440 or perm. Creation and analysis of teaching materials in bilingual education.

451 Computers for Language Teaching I (4)

Prereq: 350 or perm. Introduction to uses of computers for language teaching, software selection, and creation of supplementary computer-assisted language learning (CALL) materials.

452 Computers for Language Teaching II (4)

Prereq: 451 and 485 or ML 445 or perm. Creation of CALL materials using authoring packages, authoring languages, or programming languages.

453 Computers for Language Teaching III (4)

Prereq: 452. Developing a comprehensive CALL package.

460 Phonology (5)

Prereq: 350 or perm. Introductory course in analysis of sound systems of natural languages.

470 Syntax (5)

Prereq: 350. Introduction to theory and application of grammatical analysis of natural languages.

475 Theories of Language Learning (4)

Prereq: 350. Introduction to theories of first and second language acquisition and their implications for language teaching methodology.

480 TEFL Theory and Methodology (4)

Prereq: 475. Second language teaching theory and methodology, with emphasis on teaching English as foreign language.

481 Methods and Materials in TESL (4)

Prereq: 475. Introduction to methods, techniques, and materials useful in the teaching of English in second language contexts and specifically in the public schools.

482 Materials in TEFL (4)

Prereq: 480. Theory and practice of analysis, evaluation, and creation of instructional materials for teaching English as a foreign language.

483 Testing in TESL (4)

Prereq: 480 or perm. Evaluation and writing of language test items appropriate for measuring global competency and competency in specific skill areas. Entry and exit testing for public school ESL programs also discussed.

485 Historical Linguistics (4)

Prereq: 460, 470. Study of genealogical classification of languages, and of historical change in language systems.

490 Sociolinguistics I (4)

Prereq: 350 or perm. Observation and analysis of similarities and differences of language behavior in variety of linguistic and sociocultural contexts.

491 Sociolinguistics II (4)

Prereq: 490. Introduction to relationships between interlocking systems of language and social grouping.

495 Directed Research (3)

Prereq: perm. Independently directed project on a particular topic of interest in linguistics; required of all majors.

499 Special Studies in Linguistics (1-3)

Prereq: perm. Independent study of particular area of interest in linguistics.

Malaysian

See Foreign Languages and Literatures.

Management (MGT)

191 Workshop in Management (1-4)

Provides traditional and nontraditional students with specialized course offerings directed toward identified needs. Facilitates offering short courses, workshops, and institutes involving intensified instruction in pertinent management areas.

200 Introduction to Management (4) (25)

Prereq: not open to CBA students. Nature of managerial concept, managerial functions, and organizational structure, with emphasis on current issues.

300 Management (4)

Prereq: jr. Understanding of and practice in solving problems facing managers and administrators using concepts and principles from behavioral sciences and other applicable disciplines. No credit given to students who have completed 200. Students assumed to have background in economics, accounting, business law, and statistics equiv to ECON 103 and 104, ACCT 202, BUSL 255, QBA 201, PSY 121, ECON 381, or INCO 103.

325J Business Communications (4) (11)

Prereq: fr-level Tier I English, jr. Introduction to basic concepts of organizational communication and practice with written communication forms (letters and reports). Brief consideration given to oral communication.

340 Organizational Behavior—Micro Perspective (4)

Prereq: jr. Conceptual framework of behavioral sciences to management and organizations. Motivation and leader behavior within organizational settings.

345 Organizational Behavior—Macro Perspective (4)

Prereq: jr. Organizational theory and behavior emphasizing formal organizational theory and work group behavior. Concentrates on interaction between organization, its environment and its members, and influences of informal work groups on member behavior.

428 Nonindustrial Labor Relations (4)

Prereq: jr and perm. Labor management relations problems and practices in nonprofit-making organizations such as government (city, county, state, and federal), educational institutions, charity and health care organizations. Covers such topics as relevant laws and regulations, administrative response to unionization attempts, contract negotiations, contract administration including grievance handling and arbitration through lectures, readings, and case analyses.

430 Management Systems—Decision Making (4)

Prereq: 200 or 300 or perm. Decision making and problem solving in organizations from managerial perspective.

435 Management Systems—Information Handling (4)

Prereq: 200 or 300 or perm. Focuses upon humans and machines as components of formalized information systems. Subject matter approached from systems and procedures viewpoint, with particular emphasis on management planning and control techniques.

450 Managing Health Care Organizations (4)

Prereq: 200 or 300. Develops conceptual tools for understanding health care management problems.

480 Business Organizations—Change and Development (4)

Prereq: 340. Advanced study of the theory of internal change processes and organizational development within business organizations. Topics include role of the manager in the change process, need for change, systems analysis of the change process, identification of change processes, research considerations, use of internal vs. external change agents, and current trends.

484 International Comparative Management (4)

Prereq: sr. Survey and analysis of similarities and differences in management systems, processes, and styles, as well as evaluation of changes and their impact in selected groups of countries.

491 Seminar (3, 4, or 5)

Prereq: jr or perm. Selected topics of current interest in management and organizational behavior area.

492 Management Thought (4)

Prereq: sr. Review of development of managerial theories from 5000 B.C. to present with consideration of their application to current organizational settings.

494 Management Research (4)

Prereq: 12 hrs of management courses. Practical application of research methods in behavioral sciences to management problems, emphasizing research available and its use in decision making and in solving managerial problems.

497 Independent Research (1-4)

Prereq: perm. Research in selected fields of management and organizational behavior under direction of faculty member.

497H Independent Research (1-4)

Prereq: 3.3 g.p.a., written proposal, and perm. Independent research. Course content selected by professor and student.

498 Internship (1-4)

Prereq: perm.

Management Information Systems (MIS)

The Management Information Systems (MIS) major is designed for students who want to combine training in business with an emphasis in computers and information systems. MIS majors will be prepared for entry-level positions in businesses which make extensive use of computers to support the operation of the business. Students are exposed to a wide range of hardware and software products and learn to apply them to a variety of business applications. This exposure is designed to give the student the ability to master new developments in computer technology quickly and to apply the new technology to appropriate business problems.

As an MIS graduate, a student will be able to communicate with both computer specialists and management professionals. Graduates develop an understanding of business problems as well as the computer technology used to solve those problems. MIS graduates are specifically trained to understand business applications and how computer technology can be applied to those applications.

100 Introduction to Microcomputers (3)

Introduces student to computer concepts within the framework of business applications. Students do computer assignments including word processing, spreadsheet analysis, and data base applications, as well as readings in computer literature. No credit for both 100 and CS 120.

220 Introduction to Business File Processing (4)

Prereq: 100 or CS 120 or CTCH 125 or BMT 200 or IT 103. Students learn to write programs in COBOL that process data stored in files to solve business problems. Applications are created on large computer systems. Structured programming is emphasized.

225 Prototyping and Fourth Generation Languages (4)

Prereq: 220. Students will learn how to write business applications using fourth generation languages to process data stored on larger computer systems.

230 Advanced Microcomputer Spreadsheet Applications (4)

Prereq: 100 or CS 120 or CTCH 125 or BMT 200 or IT 103. Advanced functions of spreadsheet programs will be examined. Groups of spreadsheet applications will be integrated to create systems designed to support common business functions.

235 Advanced Microcomputer Data Base Applications (4)

Prereq: 100 or BMT 200 or CTCH 125 or CS 120. Relational data base software will be used to create integrated data storage and retrieval systems. These systems will be used to solve business problems.

240 Introduction to Business Applications of Artificial Intelligence (4)

Prereq: CS 228 or equiv. Introduces the student to the role and potential value of artificial intelligence (AI) applications in business. Topics include the role of AI in decision making, modeling, and prototyping. A working knowledge of PROLOG is assumed.

300 Business Information Systems (4)

Prereq: 100 or CS 120 or CTCH 125 or BMT 200 or IT 103 and jr. Addresses issues that arise in dealing with management information as a business resource. As an introduction to the field of management information systems, topics covered deal with computer technologies, information development, and impact of information systems on business organizations at a variety of levels, from personal information systems to organization information architectures. Major attention is given to the implications of information systems for achieving competitive advantage.

320 Business Systems I (4)

Prereq: 225 or 330. First of a two-part series related to the development of computer information systems in business. This course looks at the planning and management of information systems development projects, along with tools for requirements analysis and evaluation of alternatives. Emphasis on prototyping and use of fourth generation languages. Begins a major project which will be finished in 420.

325 PC LAN Applications (4)

Prereq: 220. Introduction to Local Area Networks. Students serve as network administrators to install, cable, and configure a Local Area Network. Topics include creating users, installing software, setting up printers, establishing security, and managing the network.

340 Business Expert Systems (4)

Prereq: 320 or 390. An introduction to the role of expert systems as a tool in business information systems. Emphasis on the place of expert systems in the systems development process. Representative expert system shells will be examined.

350 Business Computer Hardware and Systems Software (4)

Prereq: 220. Provides a detailed review of the architecture of business computing equipment and systems software (operating systems, editors, language translators, etc.). Information on the technical underpinnings of business computer information systems.

380 Business Data Base I (4)

Prereq: 225. Focuses on the use of relational data base technology in implementing business applications. Emphasizes the concepts of data base design and implementation and gives students a chance to create their own data bases.

420 Business Systems II (4)

Prereq: 320 and 380. Second of a two-part series on the development of computer information systems in business. This course looks at tools for design and implementation of computer information systems, along with testing and maintenance of systems. Project begun in 320 is completed.

430 IBM COBOL (4)

Prereq: 225 or 330. Deals with application of COBOL programming language to problems in marketing, finance, management, accounting, and economics.

440 Applied AI in Management Information Systems (5)

Prereq: 340. Course focuses on knowledge acquisition, knowledge representation, and the application of AI technology to aid in the solution of problems facing modern business. Expert system shells and AI programming languages (Prolog, OPS5, etc.) will be re-examined for their ability (or inability) to interface with "traditional" systems development tools and to integrate into existing information systems.

455 Distributed Systems (4)

Prereq: 325. This class treats organization-wide networking, comparing the advantages and disadvantages of various network configurations. The class will emphasize Wide Area Network planning, with special attention to data administration policies and procedures.

480 Business Data Base II (4)

Prereq: 380. This course builds on the concepts learned in Business Data Base I. Students learn to use advanced data base features in a lab-oriented environment. Applications will be written to solve business problems using the data stored in the data base.

491 Seminar (1-4)

Prereq: perm. Selected topics of current interest in the management information systems area.

492 Lab Assistant Seminar (1-15)

Prereq: perm. Students assist instructors with advising of students in lab classes. Assistants must receive an A in the lab class to be eligible to serve as an assistant. One hour of credit is given for three hours of assistant work.

495 Management Information Systems (4)

Prereq: 320 and 380. This is the capstone course for MIS majors. It will focus upon ways in which information systems can be created to give competitive advantages to businesses. The class will emphasize the management of computing from a people and data perspective, demonstrating that computer-based systems are increasingly the principal tool of effective management.

497 Independent Research (1-4)

Prereq: accepted proposal and perm. Research in selected fields in management information systems under the direction of a faculty member. Student must submit a proposal and have it accepted by a faculty member before taking this course.

498 Internship (1-4)

Prereq: 12 hrs of MIS courses above 100 and/or perm.

Manufacturing Technology (MTCH)

The following courses for the A.A.S. in manufacturing technology are available only on the Lancaster campus.

220 Basic Hydraulics (3)

Prereq: PHYS 201. Application of hydraulic principles to common industrial control circuits. Emphasis on maintenance of hardware and circuitry. Field trips part of lab activity. 1 lec, 4 lab.

221 Basic Pneumatics (3)

Prereq: 220. Application of compressed air control systems to common industrial control circuits. Emphasis on maintenance of hardware and circuitry. 1 lec, 4 lab.

261 Manufacturing I (Processes) (3)

Comprehensive study of machine processes used in manufacturing with regard to their selection and plant layout requirements. Field trips part of lab activity. 2 lec, 2 lab.

262 Manufacturing II (Inventory, Handling, Costing) (3)

Prereq: 261 or perm. Inventory control, materials handling and production costs, storing and handling of materials before, during, and after manufacture. Field trips part of lab activity. 2 lec, 2 lab.

263 Manufacturing III (Quality Control) (3)

Analysis of basic principles of quality control. Includes statistical aspects of tolerance, basic concepts of probability, frequency distribution, sampling inspection, charts and gauges related to inspection. Field trips part of lab activity. 2 lec, 2 lab.

264 Manufacturing IV (Scheduling) (3)

Various established techniques of scheduling, analyzing, and improving production operations. Detailed study of applications of CPM scheduling. Introduction of PERT. Field trips part of lab activity. 2 lec, 2 lab.

290 Materials (3)

Prereq: CHEM 121 or perm. Applications of materials used in manufacturing and design. Metallic structure, alloys; heat treating; comparative properties of metals, plastics, and ceramics; processing effects; testing methods; coatings, lubricants, etc. 2 lec, 2 lab.

299 Special Problems (1-3, max 9)

Prereq: perm. Individual projects or internship experiences under supervision of faculty member in manufacturing technology.

Marketing (MKT)

The marketing major prepares students to become professional marketing personnel via available coursework in personal selling and sales management, marketing research and consumer behavior, and marketing analysis and management (national as well as international).

In addition to the B.B.A. degree requirements, a student majoring in marketing must complete 24 hours of marketing courses at the 300 or 400 level including 379 and 463.

101 Consumer Survival in the Marketplace (4)

How consumer can adapt himself or herself to modern marketing environment to increase satisfaction derived from spending his or her money.

301 Marketing Principles (4)

Prereq: ACCT 201, Jr. Principles of marketing management with emphasis on practices and problems of marketing manager; analysis of marketing environment; lecture supplemented with cases.

302 Marketing Principles (4)

Prereq: Jr. Principles of marketing management with emphasis on practices and problems of marketing manager; analysis of marketing environment; lecture supplemented with cases. Students assumed to have background in economics, accounting, business law, and statistics equivalent to ECON 103, ECON 104, ACCT 202, BUSL 255, and QBA 201.

303 Marketing Problems and Cases (4)

Prereq: 301, preference to majors. Problems facing manufacturers and middlemen in marketing programs. Students will develop integrated marketing programs based on cases taken from actual business situations. Emphasis on development of analytical skills.

358 Techniques in Personal Selling (4)

Prereq: 301, marketing major or perm. Combines personal selling theory with actual practice. Students required to give sales presentations, interview professional sales representatives, analyze short cases, and produce final paper of complete sales presentation. Professional salespeople used as guest speakers to talk on current topics in area of sales.

360 Marketing for Nonprofit Organizations (4)

Prereq: 301 or perm. Focuses application of basic marketing principles on organizations which have objectives other than achieving profit. Topics include orienting products to clients, building communication flows with and motivating both internal and external publics, application of marketing research and segmentation analysis, identification of publics, and analysis of needs.

379 Marketing Research (4)

Prereq: 301, QBA 201, and perm. Techniques involved in collection, tabulation, and analysis of marketing information.

404 Management of Distribution (4)

Prereq: 301 and ACCT 202, preference to majors. Problems encountered by manufacturer in establishing and maintaining effective distribution system, concentrating or channel design and strategies.

420 Services Marketing (4)

Prereq: 301 or perm. This course reflects the increasing proportion of GNP taken up by the service sector. Included in course material will be the recreation industry, government agencies, financial institutions, professional (legal, medical) services, and other industries that do not sell a physical good as their main offering to the public. The course will consist of lecture, case work, and outside of class assignments. Students will be expected to analyze materials and write short reports.

425 Business to Business Marketing (4)

Prereq: 301. Perspective on the field of business marketing—what is business marketing and in what market does business marketing occur? Objectives are to: (1) understand organizational buyer behavior as compared to and contrasted with individual consumer buyer behavior; (2) understand the best methods of assessing market opportunities in business markets; and (3) understand and develop business marketing strategies based on the environment facing a firm and the likely changes to that environment, including evaluating business performance.

441 International Marketing (4)

Prereq: 301, preference to majors. Marketing problems, opportunities, and organization of multinational firms to serve overseas markets. Government aids and impediments and comparison of markets and marketing techniques in U.S. and foreign countries.

444 Consumer Behavior (4)

Prereq: 301. Illustrates practical importance of understanding consumer's knowledge and attitudes; discusses various approaches for assessing such knowledge and attitudes. Identifies major factors that influence how consumers process and learn marketing information and encourages discussion of various techniques at the marketer's disposal for influencing consumer attitudes and behavior.

446 Sales Forecasting (4)

Prereq: 301. Forecasting techniques and methodologies applied to estimation of future environments in which business and marketing managers will have to operate.

450 Management of Promotion (4)

Prereq: 301, preference to majors. Problem-solving course leading to development and management of firm's promotional mix with emphasis on use of mass media and on stimulation of reseller's cooperation.

458 Sales Management (4)

Prereq: 301, preference to majors. Principles and practices in planning, organizing, and controlling sales force. Selection, training, compensating, supervising, and stimulating salespeople. Analysis of sales potentials and costs.

461 Social Issues of Marketing (4)

Prereq: 301, preference to majors. Designed to increase awareness of future marketing managers of contemporary social issues and legal requirements of marketplace. Social critics, past and present, and their criticisms, including excessive promotion, unsafe and unnecessary products, high prices, and possible societal and governmental responses to these criticisms.

462 Managing Product Development (4)

Prereq: 301. Examines factors leading to competitive decline of U.S. industry in bringing new products to market quickly. Discusses issues related to the successful management of new product development process. Topics include concept testing, managing interfunctional teams, designing products for manufacturability and environmental concerns, product liability, product turn-around, and accelerating the product development cycle.

463 Marketing Strategy (4)

Prereq: 379 and 12 hrs of MKT. Analysis of preparation and organization of overall marketing plans and elements of marketing mix. Also developed are merchandising analyses, objectives, and strategies which take into consideration ever-changing consumer, trade, and legal environments.

480 Mathematical Models of Marketing Analysis (4)

Prereq: 379, preference to majors. Quantitative techniques that can be used in analysis of marketing problems and application of these methods to problem situations.

485 Advanced Marketing Research (4)

Prereq: 379 or perm. Continuation of beginning marketing research course with emphasis on topics not covered by 1st course. Example of topics, which is not inclusive: (1) statistical procedures and their marketing applications, (2) brand positioning and market segmentation using marketing research techniques, and (3) managerial cases which use marketing research as focus.

491 Seminar (1-4)

Prereq: perm. Selected topics of current interest in marketing area.

493 Readings (1-4)

Prereq: perm. Readings in selected fields of marketing. Topics selected by student in consultation with faculty member.

497 Independent Research (1-4)

Prereq: perm. Research in selected fields of marketing under direction of faculty member.

498 Internship (1-4)

Prereq: perm.

Mathematics (MATH)

The requirement for the A.B. or B.S. degree in mathematics is 50 quarter hours in courses numbered 200 or above, 16 hours of which must be chosen from courses numbered 306 and above (exclusive of 490 and 491), all taken for grade. Moreover, students seeking the B.S. degree must complete MATH 314 (or 413A) and MATH 360 (or 460A) as part of their 16 hours chosen from courses numbered above 306. The requirement for a minor in mathematics is 30 quarter hours in mathematics courses numbered above 200, including ten quarter hours of courses numbered 306 or above.

When planning any program of study in mathematics, it is strongly recommended that the student consult an advisor from the department.

A student wishing to study mathematics strictly from a mathematician's viewpoint, in specially designed courses, should inquire about our tutorial program. (Standard courses listed in the catalog are designed to serve many departments and purposes.)

A student studying mathematics with the view of eventually doing graduate work in mathematics is encouraged to pattern a program around the following suggested basic course selections: MATH 263 A, B, C, D, 306, 314, 340, 360, 411, 413 A, B, and 460 A, B, C. For more detailed information and recommendations, the student should consult the Special Curricula in the College of Arts and Sciences section of this catalog.

A student wishing to use mathematics training in business and industry may elect to pursue studies in applied mathematics. Such a course of study may terminate in a B.S. degree or be continued into graduate studies. For more detailed information and some example programs of study, the student should consult the Special Curricula in the College of Arts and Sciences section of this catalog.

A student preparing for teacher certification should seek a broad background in various areas of mathematics, including algebra, analysis, geometry, computer science, probability, and statistics. In addition to the specified course requirements listed by the College of Education, suggested electives include: MATH 250B, 300, 306, 307, 314, 360, 406, 450A, and 450B. Consult an advisor in the Department of Mathematics or College of Education for additional information.

Courses labeled 151 or below (with the exception of MATH 115, 116, or 118 when specified as a requirement for a major or taken as a prerequisite for MATH 263A) are not open for credit to students who have passed a mathematics course with a number higher than 151. MATH 113, 115 is a remedial sequence for 263A.

101 Basic Mathematics (4)

Prereq: placement or perm. Fundamental course in arithmetic and elementary algebra for students with unusually weak backgrounds. Credit applies as hours toward graduation but meets no other college requirement. No credit to student who has passed higher-level mathematics course.

113 Algebra (5) (1M)

Prereq: 101, or 2 yrs h.s. algebra and placement. Review topics in high school algebra including linear and quadratic equations and inequalities, factoring, fractions, radicals and exponents, and simple graphing techniques. No credit to those with credit for 117.

115 Pre-Calculus (5) (1M)

Prereq: 113, or 3 yrs h.s. math and placement. Graphs, inverses, and operations of functions. Study of polynomial, rational, exponential, logarithmic, and trigonometric functions. Additional topics from trigonometry and analytic geometry. Recommended for students intending to enroll in the 263 calculus sequence.

116 Analytic Trigonometry (2)

Prereq: 2 yrs h.s. algebra. Trigonometric functions and their properties, identities, equations, and applications. Available by correspondence and on some regional campuses. No credit to those with credit for 115 or 118.

117 Elementary Applied Mathematics (4) (1M)

Prereq: 2 hrs h.s. algebra, or Tier I placement. Topics from intermediate algebra such as functions and graphs, systems of linear equations, 3x3 determinants, factoring, quadratic equations and inequalities, exponents and radicals, and logarithms. Available by correspondence and on some regional campuses. Students cannot earn credit for both this course and 113.

118 Elementary Applied Mathematics (4) (1M)

Prereq: 117 or 2 yrs h.s. algebra. Topics from trigonometry and analytic geometry including trigonometric functions and their graphs, vectors and oblique triangles, trigonometric identities, j-operator, straight lines, conic sections, and translation of axes. Available by correspondence and on some regional campuses. Students cannot earn credit for both 118 and any of: 115, 116, or 130.

120 Elementary Topics in Mathematics (4) (1M)

Prereq: 1 yr h.s. algebra and 1 yr h.s. geometry. 120-121-122 is a sequence for majors in elementary education and related fields. Emphasis of 120 is on number systems and related properties. 121 and 122 focus on topics related to elementary curriculum including geometry, algebra, statistics, and probability. Satisfies Tier I requirement for elementary education majors only. Does not apply to Arts and Sciences natural science requirements.

121 Elementary Topics in Mathematics (3) (1M)

Prereq: 120. Continuation of 120. Does not apply to Arts and Sciences natural science requirements.

122 Elementary Topics in Mathematics (3)

Prereq: 121. Continuation of 120-121. Does not apply to Arts and Sciences natural science requirements.

130 Plane Analytic Geometry (3)

Prereq: 113, or equiv. May be taken concurrently with 116. Straight lines, circles, conic sections, functions, and graphing of functions studied. Available by correspondence and on some regional campuses. No credit to those with credit for 118.

151 Mathematics: An Everyday Tool (4) (1M)

Prereq: 2 yrs h.s. math. Applications of elementary math to day-to-day problems. Special emphasis on consumer math such as compound interest, mortgages, and installment buying. Elementary probabilities and statistics with applications. Scientific calculator required. Does not apply to Arts and Sciences natural science requirements.

163A Introduction to Calculus (4) (2N)

Prereq: 2 yrs h.s. algebra and placement, or 113. Presents survey of basic concepts of calculus. For students who want introduction to calculus but do not need depth of 263ABC. Note: Not open for credit to students who have credit for 263A. Students should not take 163A and/or 163B in preparation for 263A or 263B. Credit cannot be earned for both 263A and 163A.

163B Introduction to Calculus (3) (2N)

Prereq: 163A. Continuation of 163A. Note: Not open for credit to students with credit for 263B.

211 Elementary Linear Algebra (4)

Prereq: 115 or 4 yrs h.s. math. Solutions to linear systems, matrices and matrix algebra, determinants, n-dimensional real vector spaces and subspaces, bases and dimension, linear mappings, matrices of linear mappings, eigenvalues and eigenvectors, diagonalization. Emphasis is on techniques and computational skills. No credit to students who have completed 410 or 411.

250A Finite Mathematics (4)

Prereq: 3 yrs h.s. math, or 113. Set theory; logic; vectors and matrices; linear programming. Not counted toward math minor or major.

250B Finite Mathematics (4)

Prereq: 3 yrs h.s. math, or 113. Elementary probability and introduction to statistics. 250A not a prerequisite. Note: Not open for credit to students who have credit for 450A or ISE 304.

NOTE: It is strongly recommended that students who earn lower than a C in any course in the 263 calculus sequence retake that course before progressing in the sequence.

263A Analytic Geometry and Calculus (4) (2N)

Prereq: 115, or 4 yrs h.s. math and placement. Limits and differentiation, including trigonometric functions with applications. Students cannot earn credit for both 263A and 163A.

263B Analytic Geometry and Calculus (4)(2N)

Prereq: 263A or 163B. Continuation of 263A. Integration, logarithmic, exponential, and other transcendental functions.

263C Analytic Geometry and Calculus (4) (2N)

Prereq: 263B. Continuation of 263A-B. Integration techniques, indeterminate forms, improper integrals, infinite series, and polar coordinates.

263D Analytic Geometry and Calculus (4)

Prereq: 263C. Continuation of 263A-B-C. Vectors, partial differentiation, and multiple integrals.

297T Mathematics Tutorial (1-15)

(fall) Special program for students of unusual ability.

298T Mathematics Tutorial (1-15)

Prereq: 297T. (winter) Continuation of 297T. See 297T for description.

299T Mathematics Tutorial (1-15)

Prereq: 298T. (spring) Continuation of 297T and 298T. See 297T for description.

300 History of Mathematics (4)

Prereq: math major, jr or sr. Survey of main lines of mathematical development in terms of contributions made by great mathematicians.

NOTE: Following 4 courses (306, 307, 314, 330) primarily intended for prospective mathematics majors to introduce them to some mathematical theory at an elementary level.

306 Foundations of Mathematics I (4)

Prereq: 263A or 163B. An introduction to mathematical thinking and formal proofs. Topics include sets, relations, and functions.

307 Introduction to Number Theory (4)

Prereq: 306. Investigation of properties of natural numbers. Topics include mathematical induction, prime factorization, Euclidean algorithm, Diophantine equations, congruences, and divisibility.

314 Elementary Abstract Algebra (4)

Prereq: 306. Mappings, relations, definitions, and examples of groups, groups of rotations, cyclic groups, Lagrange's Theorem, fields, polynomials over fields.

320 Teaching of Mathematics in Secondary School (4)

Prereq: 211, 330B, and jr. Orientation to professional mathematics education and topics related to teaching of mathematics on secondary school level. Not counted toward math major or minor.

330A Foundations of Geometry (3)

Prereq: 306. Introduction to axiomatic mathematics via 2 finite geometries and variety of interpretive models. Develops plane Euclidean and non-Euclidean geometries in rigorous fashion from axiomatic approach.

330B Foundations of Geometry (3)

Prereq: 330A. Continuation of 330A. See 330A for description.

333 Elementary Projective Geometry (4)

Prereq: 330 or perm. Topics in projective geometry.

340 Differential Equations (4)

Prereq: 263C. Ordinary differential equations and related topics.

343 Mathematical Modeling (4)

Prereq: 163A-B, and 250A-B, or perm. Construction and analysis of mathematical models and their use in investigation of physical, chemical, geological, social, and environmental problems. Models which use only elementary mathematical concepts stressed.

360 Intermediate Analysis (4)

Prereq: 263D and 306, or perm. Rigorous study of limits, continuity, and differentiability of functions of 1 real variable.

397T Mathematics Tutorial (1-15)

(fall) Special program for students of unusual ability.

398T Mathematics Tutorial (1-15)

Prereq: 397T. (winter) Continuation of 397T. See 397T for description.

399T Mathematics Tutorial (1-15)

Prereq: 398T. (spring) Continuation of 397T and 398T. See 397T for description.

406 Foundations of Mathematics II (4)

Prereq: 307 or 314 or 360. Introductory topics in set theory and axiomatic development of real number system.

407 Number Theory (4)

Prereq: 307, 263C. Topics in number theory.

410 Matrix Theory (4)

Prereq: 263D. Matrix algebra, determinants, solutions of linear systems, eigenvalues and eigenvectors, matrix functions and applications to differential equations, Jordan canonical form, inner products diagonalization and generalized inverses. Intended primarily for students interested in applied mathematics, engineering, and sciences.

411 Linear Algebra (4)

Prereq: 211 or 410. (fall) Vector spaces and linear transformations, characteristic values, quadratic forms, dual spaces, normal forms, and Jordan canonical form.

412 Introduction to Algebraic Coding Theory (4)

Prereq: 211 or 410. Encoding and decoding. Vector spaces over finite fields. Linear codes, parity-check matrices, syndrome decoding, Hamming and cyclic codes. Multiple error correcting BCH codes.

413A Introduction to Modern Algebra (4)

Prereq: 263C (314 or 411 recommended). (winter) Groups, permutation groups, subgroups, normal subgroups, quotient groups. Conjugate classes and class equation formula and its applications to p-groups. Fundamental theorem on homomorphisms.

413B Introduction to Modern Algebra (4)

Prereq: 413A. (spring) Fundamental theorem on finite abelian groups and its consequences. Cauchy theorem and first Sylow theorem. Polynomial rings. UFD and Euclidean domains. Maximal ideals. Algebraic extensions and splitting fields. Fundamental theorem of Galois theory.

439 Topics in Geometry (1-5)

Prereq: perm. When demand is sufficient, course in some phase of geometry will be offered under this number. May be repeated for credit up to 10 hrs.

440 Vector Analysis (4)

Prereq: 263D. Vector algebra and its applications. Vector calculus and space curves. Scalar and vector fields, gradient, divergence, curl, and Laplacian. Line and surface integrals. Divergence theorem. Stoke's theorem, and Green's theorem.

441 Fourier Analysis and Partial Differential Equations (4)

Prereq: 340 and 263D. Representation of functions as sums of infinite series of trigonometric functions, Bessel functions, Legendre polynomials, or other sets of orthogonal functions. Use of such representations for solution of partial differential equations dealing with vibrations, heat flow, and other physical problems.

442 Theory of Linear and Nonlinear Programming (4)

Prereq: 211 or 401, and 263D; computer programming experience is desirable. Minimization of functions subject to equality and inequality constraints, Kuhn-Tucker theorem, algorithms for function minimization, such as steepest descent and conjugate gradient and penalty function methods. (Not a course in computer programming.)

443 Mathematical Modeling and Optimization (4)

Prereq: 263D, 340, 211 or 410. Investigation of differential equation models of physical, social, and biological phenomena by qualitative analysis. Optimal criteria incorporated to convert models to optimal control problems. Pontryagin's maximal principle used to find analytic solutions. Numerical solutions to optimal control problems also treated.

444 Introduction to Numerical Analysis (4)

Prereq: 263D, 340, and CS 220. Polynomial interpolation and approximation; numerical integration and differentiation; numerical solution to differential equations; numerical methods for matrix inversion, determination of eigenvalues, and solutions of systems of equations.

445 Advanced Numerical Methods (4)

Prereq: 441, 444. (winter) Numerical methods for solutions of ordinary and partial differential equations (credit for only 1 of 445 or ET 445).

446 Numerical Linear Algebra (4)

Prereq: 410 and CS 220 or equiv. Floating point arithmetic, numerical solution of systems of linear equations using Gaussian elimination and its variants, numerical techniques for eigenvalues, error analysis, and implementation of algorithms on computer.

449 Advanced Differential Equations (4)

Prereq: 340, and 410 or 411. Introduction to theory of ordinary differential equations with special attention to oscillation, plane autonomous systems, Liapunov theory, and quadratic functionals.

450A Theory of Statistics (4)

Prereq: 263D. (fall) Probability distribution of 1 and several variables; conditional probability and independence; moment generating functions; central limit theorem.

450B Theory of Statistics (4)

Prereq: 450A. (winter) Sampling theory, estimation of parameters, confidence intervals, analysis of variance, correlation, and testing of statistical hypotheses.

450C Theory of Statistics (4)

Prereq: 450B. (spring) Topics in statistics.

451 Stochastic Processes (4)

Prereq: 450B. Markov chains, Poisson process, birth and death process, queuing, and related topics.

460A Advanced Calculus (4)

Prereq: 360. (fall) Critical treatment of functions of single variable. Emphasis on topics not treated in 360, such as compactness, nested intervals, deeper properties of continuous functions, Riemann-Stieltjes integration, and uniform convergence.

460B Advanced Calculus (4)

Prereq: 460A. (winter) Primarily devoted to study of differential calculus in n -space. Topics include review of inner product spaces and linear transformations, elementary topology of plane, limits and continuity of functions of several variables, directional derivation, differential, chain rule, and implicit function theorem.

460C Advanced Calculus (4)

Prereq: 460B. (spring) Primarily devoted to study of integral calculus in n -spaces. Riemann-Darboux integral; Jordan content, iterated integrals, transformation of integrals, differential forms and their integrals.

470 Applied Complex Variables (4)

Prereq: 263D. Analytic and harmonic functions. Cauchy integral and residue theorems, contour integration, Taylor and Laurent expansions, conformality, and linear transformations with applications.

480A Elementary Point Set Topology (4)

Prereq: 360. (winter) Topology of Euclidean spaces and general metric spaces.

480B Elementary Point Set Topology (4)

Prereq: 480A. (spring) Introduction to general topological spaces.

490 Selected Topics in Mathematics (1-5)

Prereq: perm of instructor and chair. When demand is sufficient, course in some phase of mathematics will be offered under this number. (May be repeated for credit.)

491 Studies in Mathematics (1-15)

Prereq: 6 hrs of 400-level courses, sr or jr in Honors Tutorial College, or perm of chair and instructor. Selected topics in mathematics studied under guidance of instructor particularly interested in field. (May be repeated for credit.)

497T Mathematics Tutorial (1-15)

(fall) Special program for students of unusual ability.

498T Mathematics Tutorial (1-15)

Prereq: 497T. (winter) Continuation of 497T. See 497T for description.

499T Mathematics Tutorial (1-15)

Prereq: 498T. (spring) Continuation of 497T and 498T. See 497T for description.

Medical Technology

See Prep. for Clinical Laboratory Science under Arts and Sciences or Biological Sciences under Courses of Instruction.

Microbiology

See Biological Sciences.

Military Science (ARMY ROTC) (MSC)

The Department of Military Science offers two programs of instruction leading to a commission as a second lieutenant in the United States Army, the United States Army Reserve, or the Army National Guard. Military science is an elective program open to both men and women who are citizens of the United States.

The four-year program consists of a basic course and an advanced course. The basic course requires successful completion of military science 100- and 200-level courses during the freshman and sophomore years. The advanced course requires successful completion of military science 300- and 400-level courses during the last two academic years. The courses are two credit hours each. During the advanced course, students must attend a leadership lab for 2 hours per week. (This is in addition to the 2 hours of classroom instruction per week.)

Additionally, all advanced course students must attend a six-week summer training camp. (See MSC 330 for complete camp description.)

No military obligation is incurred for the first two years of the program. Following completion of the basic course, qualified students are accepted for the advanced course by entering a ROTC contract which obligates the student to complete the program of instruction and accept a commission in the U.S. Army, U.S. Army Reserve, or the Army National Guard. Advanced course students receive a subsistence allowance of \$100 for each academic month of enrollment, not to exceed two years.

The two-year program is offered for students who transfer from colleges that do not offer ROTC, or students whose academic course load did not permit military science during their first two years. Students may qualify for the two-year program in one of several ways. The first is by attending Army ROTC Basic Camp, Camp Challenge (see MSC 230 for complete camp description). Upon successful completion of camp, the student may enter the advanced course. Attending basic camp does not require the student to continue in the program nor does it incur any military obligation. The second is by receiving credit for honorable prior military service of at least one year, as determined by the professor of military science. Additionally, a student may receive credit for two or more years of junior ROTC at the high school level. After receiving credit for the basic course, the student proceeds with the advanced course as previously described. Other options are available for selected situations or circumstances.

Regional Campus Student. Students at one of the five Ohio University regional campuses may participate in the two-year program by attending advanced course classes at the Athens campus. Special sections are offered on Fridays to enable students to attend class, leadership lab, and related activities.

101 Introduction to Military Science (2)

Prereq: fr and soph. (fall) Broad overview of military science curriculum to include: role of the Army, benefits of military service, opportunities available to Army officers, rappelling, and rifle marksmanship.

102 Military Skills (2)

Prereq: fr and soph. (winter) Provides student with broad understanding of selected basic soldier skills through reading, lectures, film, class discussions, and practical exercises. These skills are prerequisites for students to complete the Army ROTC four-year program, and are applicable to both military and civilian occupations.

103 Map Reading and Orienteering (2)

Prereq: fr and soph. (spring) Fundamental map reading and orienteering techniques with emphasis on development of land navigation skills. Instruction includes practical field exercises in orienteering.

201 Adventure Training and Survival (2)

Prereq: fr and soph. (fall) Adventure training and survival course intended to present broad overview of wilderness survival techniques and adventure-type training skills. Course includes a one-day field exercise which occurs on a weekend during the quarter. This course also includes basic lifesaving techniques.

202 Leadership and Management (2)

Prereq: fr and soph. (winter) Interdisciplinary approach to study of organizational leadership; serves as major step in student's education in leadership process. Provides basis for understanding relationship of individual differences and leadership process, group dynamics and their relationship to leadership process, and impact of leader's behavior on leadership process.

203 Selected Military Battles and Campaigns (2)

Prereq: fr and soph. (spring) Development of military art through analysis and evaluation of selected U.S. military battles and campaigns from American Revolutionary War through Persian Gulf War. Specific battles and campaigns studied, with emphasis on application and influence of principles of war.

230 Army ROTC Camp Challenge (4)

6-week summer off-campus training program that qualifies students for direct entry to advanced ROTC course. Transportation to and from camp, uniforms, meals, and housing paid for by Army.

301 Introduction to Tactics (2)

Prereq: perm. (fall) Basic soldiering techniques emphasizing individual tactical training, organization of small military teams, and application of patrolling techniques.

302 Squad Tactics (2)

Prereq: 301. (winter) Continuation of 301. Instruction deals with offensive and defensive tactics employed by infantry rifle squad. Emphasis on leadership responsibilities during conduction of tactical operations.

303 Platoon Level Tactics (2)

Prereq: 302. (spring) Operational methods, leadership techniques, organization, weapons systems, and communication systems used in tactical employment of infantry rifle platoon. Emphasis on offensive aspects of military operations.

310A Advanced Leadership Laboratory (0)

Prereq: enrollment in 301. (fall) Development of proficiency and leadership potential by participation in planning and conducting tactical training, drill and ceremonies, and other military subjects.

310B Advanced Leadership Laboratory (0)

Prereq: enrollment in 302. Continuation of 310A. See 310A for description.

310C Advanced Leadership Laboratory (0)

Prereq: enrollment in 303. (spring) Continuation of 310A-B. See 310A for description.

330 Army ROTC Advanced Camp, Camp Adventure (4)

Prereq: 303. 6-wk field training session conducted at Army installation.

401 The Contemporary Army Officer (2)

Prereq: 303. (fall) Introduction to profession of arms with emphasis on its characteristics and responsibilities. Discussion of military professional ethics and ethical decision making with illustration through use of case studies.

402 Military Justice (2)

Prereq: 401. (winter) Orientation of military justice system as outlined within U.S. Uniform Code of Military Justice. Examines military law, discipline, behavior modification, and nonpunitive actions as management tools of a military leader.

403 World Change (2)

Prereq: 402. (spring) U.S. in contemporary world scene. Includes study of other major actors in world arena.

410A Advanced Leadership Laboratory (0)

Prereq: enrollment in 401. (fall) Practical experience as cadet officer in conduct of drill and ceremonies; training management, maintaining discipline; and demonstration of moral and range of factors which affect morale.

410B Advanced Leadership Laboratory (0)

Prereq: enrollment in 402. (winter) See 410A for description.

410C Advanced Leadership Laboratory (0)

Prereq: enrollment in 403. (spring) See 410A for description.

490 Special Problems (1-5)

Prereq: perm. Provides continuing military education on individual basis. Provides advanced and specialized training depending upon needs of individual and department.

Music (MUS)

Applied Music

Fee for private instruction for all applied music (piano, voice, organ, strings, woodwinds, brass, percussion) is \$12 per quarter hour.

Note: A description of the proficiency requirements for applied music may be obtained from the School of Music.

090 Performance Laboratory (0)

Required of all undergraduate music majors.

141 Class Piano (2)

Prereq: perm, music majors only. *M. Stewart.*

141A Class Piano (2)

Prereq: for nonmusic majors. *G. Berenson.*

142 Class Piano (2)

Prereq: perm, 141, music majors only. *M. Stewart.* Continuation of 141.

142A Class Piano (2)

Prereq: perm, 141A, for nonmusic majors. *G. Berenson.* Continuation of 141A.

143 Class Piano (2)

Prereq: perm, 142, music majors only. *M. Stewart.* Continuation of 141 and 142.

143A Class Piano (2)

Prereq: perm, 142A, for nonmusic majors. *G. Berenson.* Continuation of 142A.

147 Class Voice (2)

Prereq: perm, music majors only. *N. Beebe.* For students enrolling in beginning voice.

147A Class Voice (2)

Prereq: for nonmusic majors. Beginning instruction in voice for nonmusic majors.

148 Class Voice (2)

Prereq: 147 or perm. *N. Beebe.* Continuation of 147.

148A Class Voice (2)

Prereq: perm, 147A, for nonmusic majors. (winter) Continuation of 147A.

149 Class Voice (2)

Prereq: 148 or perm. *N. Beebe.* Continuation of 148.

149A Class Voice (2)

Prereq: perm, 148A, for nonmusic majors. (spring) Continuation of 148A.

165 Class Folk Guitar (2)

Prereq: music major or perm. *P. Coddington.* Introduction to guitar fundamentals including the playing of chords and melodies using varied systems of notation, basic strumming and finger-picking techniques, and tuning. Skill development in the use of guitar in vocal accompaniment and early solo work.

165A Class Folk Guitar (2)

Prereq: nonmusic major or perm. *P. Coddington.* See 165 for further description.

166 Class Folk Guitar (2)

Prereq: 165 or perm. *P. Coddington.* Continuation of 165.

166A Class Folk Guitar (2)

Prereq: 165A or perm. *P. Coddington.* Continuation of 165A.

241 Class Piano (2)

Prereq: music majors only, 143 with minimum grade of C, or perm. *M. Stewart.*

242 Class Piano (2)

Prereq: 241 or perm, for music majors only. *M. Stewart.* Continuation of 241.

243 Class Piano (2)

Prereq: 242 or perm, for music majors only. *M. Stewart.* Continuation of 241 and 242.

244D Communiiversity Band (2)

Prereq: perm or audition. A wide variety of music literature, including marches, overtures, and musicals is studied and performed both on and off campus under both a permanent and guest conductor.

251A Marching Band (2)

Prereq: audition. *S. Young.*

251B Wind Symphony (2)

Prereq: audition.

251C University Band (1)

Prereq: perm or audition. *S. Young.*

251D Varsity Band (1)

Prereq: perm or audition. *S. Young.*

252A Symphony Orchestra (2)

Prereq: audition. *K. Furumoto.*

252B Chamber Orchestra (1)

Prereq: audition. *K. Furumoto.*

253A University Singers (2)

Prereq: audition. *P. Jarjisian.*

253B Choral Union (1)

Prereq: audition. *P. Jarjisian.*

253C Opera Theater (1-4)

Prereq: audition. *R. Stephens.*

253D Men's Glee (1)

Prereq: audition. *I. Zook.*

253E Women's Glee (1)

Prereq: audition. *R. Wetzel.*

254A Chamber Music, Strings (1)

Prereq: strings, only, perm. Participation in playing of standard string chamber literature.

254B Chamber Music, Woodwinds (1)

Prereq: perm. Participation in playing of standard woodwind chamber literature.

254C Chamber Music, Brass (1)

Prereq: perm. Participation in playing of standard brass chamber literature.

254D Chamber Music, Percussion (1)

Prereq: perm. Participation in playing of standard percussion chamber literature.

254E Chamber Music, Contemporary (1)

New music ensemble. Participation in performing contemporary chamber music for various ensembles of instruments and voices.

254F Chamber Music, Piano (1)

Prereq: perm. Participation in playing of standard piano chamber literature.

255A Jazz Ensemble (1)

Prereq: audition. *E. Bastin.*

255B Percussion Ensemble (1)

Prereq: perm. *G. Remonko.*

255C Trombone Choir (1)

Prereq: perm. *R. Fink.*

257 Collegium (1)

Prereq: perm or audition.

340 Voice (1-6)

Prereq: music major, or perm for nonmusic majors. *N. Beebe, I. Zook.*

341 Piano (1-6)

Prereq: music major, or perm for nonmusic majors. *G. Berenson, M. Stewart, R. Syracuse.*

343 Organ (1-6)

Prereq: perm. *J. Butler.*

343A Harpsichord (1-4)

Prereq: perm. *J. Butler.*

344 Violin (1-6)

Prereq: perm. *H. Beebe.*

345 Viola (1-6)

Prereq: perm. *H. Beebe.*

346 Violoncello (1-6)

Prereq: perm. *M. Schroeder.*

347 Double Bass (1-6)

Prereq: perm. *M. Schroeder.*

348 Flute (1-6)

Prereq: perm. *T. Peterson.*

349 Oboe (1-6)

Prereq: perm. *D. Conaty.*

350 Bassoon (1-6)

Prereq: perm. *H. Robison.*

351 Clarinet (1-6)

Prereq: perm. *D. Lewis.*

352 Saxophone (1)

Prereq: perm. *A. Reilly.*

353 Trumpet (1-6)

Prereq: perm. *E. Bastin.*

354 Horn (1-6)

Prereq: perm. *S. Smith.*

355 Euphonium (1-6)

Prereq: perm. *R. Smith.*

356 Trombone (1-6)

Prereq: perm. *R. Fink.*

357 Tuba (1-6)

Prereq: perm. *R. Smith.*

358 Percussion (1-6)

Prereq: perm. *G. Remonko.*

359 Class Piano (2)

Prereq: 243 with minimum grade of C, or perm. *M. Stewart.*

360 Class Piano (2)

Prereq: 359 or perm. *M. Stewart.*

361 Class Piano (2)

Prereq: 360 or perm. *M. Stewart.*

370 Practicum in Music (1-2, max 12)

Prereq: perm. Provides practical experiences such as supervised private and/or small group teaching, seminars in instrument repair, small touring ensembles, and pit orchestra performance. May be repeated.

372 Advanced Functional Skills (2)

Prereq: jr in piano or perm. (fall) Instruction to provide greater facility in handling basic functional keyboard skills. Emphasis on transferring these skills to actual situations encountered as music educators and/or music therapists.

375A English Diction for Singers (1)

Prereq: perm. Stresses using vocal repertoire, correct pronunciation for singing.

375B Italian Diction for Singers (1)

Prereq: perm. See 375A for description.

375C German Diction for Singers (1)

Prereq: perm. See 375A for description.

375D French Diction for Singers (1)

Prereq: perm. See 375A for description.

450 Accompanying (1, max 3)

Prereq: perm. Basic problems in accompanying vocalists and instrumentalists—rehearsal techniques, ensemble, pedaling, balance, etc. May be repeated.

455 Basic Conducting (3)

Prereq: 203, 205. *P. Jarjisian, R. Socciarelli.* Basic beat patterns, technique of baton, and use of left hand. Experience in conducting choral and small instrumental ensembles in works suitable for school groups.

456A Instrumental Conducting (3)

Prereq: 205, 455. Experience in conducting from full score; includes band and orchestral works suitable for high school groups.

456B Choral Conducting (3)

Prereq: 205, 455. *P. Jarjisian*. Specialized conducting techniques for choral groups, including experience in conducting works suitable for high school and college groups.

457A Solo Repertoire of String Instruments (1)

Prereq: 323 or perm. Survey of student's major performance instrument literature.

457B Solo Repertoire of Woodwind Instruments (1)

Prereq: 323 or perm. See 457A for description.

457C Solo Repertoire of Brass Instruments (1)

Prereq: 323 or perm. See 457A for description.

457D Solo Repertoire of Vocal Music (1)

Prereq: 323 or perm.(spring) See 457A for description.

457F Solo Repertoire of Percussion Instruments (1)

Prereq: 323 or perm. See 457A for description.

458A String Instrument Pedagogy (2)

Prereq: perm. Teaching techniques and use of selected materials for various levels of ability. Includes practical experience in teaching string instruments.

458B Woodwind Instrument Pedagogy (2)

Prereq: perm. See 458A for description—woodwind instruments.

458C Brass Instrument Pedagogy (2)

Prereq: perm. See 458A for description—brass instruments.

458D Vocal Pedagogy (2)

Prereq: perm. See 458A for description—voice.

458E Class Piano Pedagogy (2)

Prereq: perm. *M. Stewart*. Practical teaching techniques unique to class piano instruction, particularly in electronic lab. Examination of useful materials for various levels of ability. Includes some experience in classroom teaching.

458F Percussion Instruments Pedagogy (2)

Prereq: perm. See 458A for description—percussion instruments.

458G Piano Pedagogy (2)

fall: G. Berenson. Provides creative teaching strategies for piano teacher. Teaching philosophies, objectives, and procedures discussed and applied to group and private piano instruction. Includes teaching techniques for working with students of all ages and levels.

458H Piano Pedagogy (2)

Prereq: perm. *(winter) G. Berenson*. Continuation of 458G. See 458G for description.

458I Piano Pedagogy (2)

Prereq: perm. *(spring) G. Berenson*. Continuation of 458G and 458H. See 458G for description.

459A Instrumental Conducting II (3)

Prereq: 456A

459B Choral Conducting II (3)

Prereq: 456B *P. Jarjisian*

497 Recital (1-2)

Prereq: perm

Music Education**160 Music Fundamentals (3)**

For elementary education majors only

161 Music for the Classroom Teacher (3)

Prereq: 160 with minimum grade of C. Methods of teaching elementary music. For elementary education majors only.

163 Introduction to Music Education (2)

Introduction of major components of music teaching in elementary and secondary schools

261 String Methods and Materials (2, max 6)

Prereq: soph in music education/music therapy. Instruction in stringed instruments with emphasis on teaching techniques, materials, and materials.

262 Music in Early Childhood (3)

Prereq: 160 with minimum grade of C. Methods and materials for aesthetic development of preschool children. Exploration of reading readiness and vocal, rhythmic, listening activities.

263 Wind and Percussion Methods and Materials (2, max 12)

Prereq: soph in music education/music therapy. Instruction in wind and percussion instruments with emphasis on teaching techniques, methods, and materials.

362 Teaching Instrumental Music in the Elementary and Middle School (3)

Prereq: jr music major. A study of procedures to be used for planning, implementing, administering, and evaluating instrumental music programs in elementary and middle schools. Also included is a survey of appropriate teaching materials and application of current technology.

363 Secondary School Instrumental Methods and Materials (3)

Prereq: jr in music education/music therapy. Literature and rehearsal techniques for secondary school bands and orchestras, including administration of the high school instrumental music program.

364 Secondary School Vocal Techniques and Materials (3)

Prereq: jr in music education/music therapy. (spring) Literature and rehearsal techniques for high school choral groups.

366 Teaching of Music in the Elementary Grades (3)

Prereq: jr in music education/music therapy. (fall) Materials and methods for elementary music. For music majors only.

464 Marching Band Techniques (2)

Prereq: jr in music education/music therapy. (spring) Techniques for preparation of high school and college marching band performance.

465 Jazz Ensemble Methods (2)

Prereq: jr in music education/music therapy. Methods of organizing and implementing jazz ensemble programs in secondary schools. Includes survey of appropriate materials.

468 General Music in the Junior High School (3)

Prereq: jr in music education/music therapy, or perm. (winter) Materials and methods; listening program; changing voice.

Music History and Literature**120 Introduction to Music Literature (3) (2H)**

Prereq: nonmusic major. Development of listening skills for understanding elements of musical style in historical perspective and significance of music as fine art.

124 Language of Rock Music (3)

Examines birth, growth, and development of rock music through its acceptance as art form with significant influence on youth culture and resulting social implications.

125 Introduction to Music History and Literature (3)

Prereq: music major or perm. (fall) Survey of musical forms, styles, performance media (including jazz and non-Western) from Gregorian era to present.

150 Viewing Performance (2)

Integrates classroom and student life activities at the University by combining the O.U. Artist Series and major productions of the schools of Comparative Arts, Music, Dance, and Theater with a seminar course dealing with characteristics of the medium and artistic concerns. A two-hour seminar precedes and follows each of the performances.

321 History and Literature of Music (3)

Prereq: 103 or perm. History of music with survey of musical literature to 1600

322 History and Literature of Music (3)

Prereq: 321 or perm. History of music with survey of musical literature, 1600-1750

323 History and Literature of Music (3)

Prereq: 322 or perm. History of music with survey of musical literature, 1750 to present.

421A Literature of Vocal Music (3)

Prereq: perm.

421B Literature of Piano Music (3)

Prereq: perm.

421C Literature of Chamber Music (3)

Prereq: perm.

421D Literature of Orchestral Music (3)

Prereq: perm.

421E Literature of Organ Music (3)

Prereq: perm.

421F Literature of Opera (3)

Prereq: perm.

421G Literature of Band Music (3)

Prereq: perm.

427 Folk Music in the United States (3)

Introduction to selected types of folk music in U.S.

428 Jazz History (3)

Study of various musics collectively known as jazz.

Independent Studies in Music**414 Senior Practicum (2)**

Prereq: sr. Preparation of senior project.

498 Independent Project (1-6)

Prereq: perm.

499 Independent Readings in Music (1-12)

Prereq: perm.

Music Theory and Composition**100 Introduction to Music Theory (3) (2H)**

Prereq: nonmusic majors only. Introduction to staff, pitch, and rhythmic notation, chords, pop music notation, etc.

101 Music Theory I (4)

Prereq: music theory placement exam. Melodic, harmonic, and rhythmic principles of music and its notation. 5 days per wk.

101A Music Theory (3)

Prereq: nonmusic majors only, ability to read music. Melodic, harmonic, and rhythmic principles of music and its notation.

102 Music Theory II (4)

Prereq: 101 or perm. Continuation of 101. See 101 for description.

102A Music Theory (3)

Prereq: 101A, nonmusic majors only. Continuation of 101A. See 101A for description.

103 Music Theory III (4)

Prereq: 102. Continuation of 101 and 102. See 101 for description.

201 Music Theory IV (3)

Prereq: 103 with a minimum grade of C-. Harmonic and contrapuntal practices of 18th, 19th, and 20th centuries, including structural analysis of small and large forms.

202 Music Theory V (3)

Prereq: 201. Continuation of 201. See 201 for description.

203 Music Theory VI (3)

Prereq: 202. Continuation of 201 and 202. See 201 for description.

204 Dictation and Sight Singing (2)

Prereq: 103 with a minimum grade of C-. Should be taken concurrently with 201.

205 Dictation and Sight Singing (2)

Prereq: 204 with a minimum grade of C-. Continuation of 204.

206 Dictation and Sight Singing (2)

Prereq: 205 with a minimum grade of C-. Continuation of 204 and 205. See 204 for description.

304 Instrumentation (3)

Prereq: 203. (fall) Technical characteristics of instruments of band and orchestra. Arranging for small ensembles.

305 Orchestration I (3)

Prereq: 203, 304. (winter) Scoring for instrumental ensembles with emphasis on intra- and cross-choir scoring. Writing of transcriptions and score reductions.

306 Orchestration II (3)

Prereq: 305. (spring) Continuation of 305. See 305 for description.

310 Composition I (2)

Prereq: 203, 206. Introduction to 20th-century compositional techniques. Writing smaller compositions.

311 Composition II (2)

Prereq: 310. Continuation of 310. See 310 for description.

312 Composition III (2)

Prereq: 311. Continuation of 310 and 311. See 310 for description.

402A Styles I (3)

Prereq: 203 with minimum grade of C-. (offered alternate years) Analysis of 15th-century music.

402B Styles II (3)

Prereq: 203 with minimum grade of C-. (offered alternate years) Analysis of post-Romantic music.

402C Styles III (3)

Prereq: 203 with minimum grade of C-. (offered alternate years) Analysis of 20th-century music.

405A Jazz Theory I (3)

Prereq: 203, 206, perm, keyboard skills as determined by instructor. Harmonic vocabulary, notational systems, and chord progressions in traditional jazz.

405B Jazz Theory II (3)

Prereq: 405A. Continuation of 405A. See 405A for description.

407A Counterpoint I (3)

Prereq: 203, 205. (offered alternate years) Analysis and composition in sacred style of 16th and 17th centuries.

407B Counterpoint II (3)

Prereq: 203, 205. (offered alternate years) Analysis and composition of 18th-century contrapuntal forms.

410A Composition (2)

Prereq: 312. Original instrumental and vocal compositions. Investigation of experimental compositional techniques.

410B Composition (2)

Prereq: 312, electronic comp. only. Original composition in electronic medium for tape alone, live electronic instruments, or conventional instruments with electronic tape.

411 Composition (2)

Prereq: 410A. Continuation of 410A. See 410A for description.

412 Composition (2)

Prereq: 411. Continuation of 410A and 411. See 410A for description.

413 Introduction to Electronic Music (2)

Techniques, theories, and aesthetics of electronic music. Development of skills as they apply to voltage-controlled synthesizer and tape splicing, and manipulation techniques.

413A Introduction to Electronic Music for Music Majors (2)

Prereq: music majors only. Introduction to electronic music covering basic concepts and providing a broad overview of current practices and trends on applying technology to musical ends.

414 Senior Practicum in Theory (2)

Prereq: sr. Preparation of theory major's sr project.

415 Microcomputer Applications in Music Production (3)

Prereq: 413 or 413A and perm. Basic concepts of digital FM synthesis and MIDI sequencing. Brief introduction to the use of microcomputers in music printing and other systems commonly used for electronic music production.

416 Project in Electronic Music (3)

Prereq: 415 and perm. Techniques of studio operation and maintenance, multi-track recording, tape editing, and mixing as they apply to electronic music.

416A Advanced Projects in Electronic Music (3)

Prereq: perm, approved project proposal, and 416. A project proposal must be submitted to and approved by the instructor prior to enrolling in this course. An electronic music composition will be produced for public performance.

416B Advanced Recording Studio Techniques (4)

Prereq: 416 and perm. Instruction in operating a 16-track recording studio. Topics including advanced mixing techniques, sound processing, mixing, and SMPTE time code synchronization on a 16-track recorder.

417 Advanced Digital Synthesis (4)

Prereq: 415 and perm. Concepts of digital sound synthesis primarily using the Synclavier system. Topics include advanced FM synthesis, additive synthesis, sampling, sequencing, and SMPTE time code synchronization on the Synclavier.

417A Advanced Digital Synthesis and Multi-track Projects (4)

Prereq: perm, approved project proposal, and 416B, 417. A project proposal must be submitted to and approved by the instructor prior to enrolling in this course. Supervision and guidance for working on creative electronic projects using the Synclavier and the 16-track recording studio.

Music Therapy**180 Music Therapy Practicum I (1-2)**

Prereq: fr in music therapy. Selected field experience in approved clinical facilities; field evaluation of student.

181 Introduction to Music Therapy (3)

(fall) Introduction to clinical practice of music therapy; observation and field trips.

280 Music Therapy Practicum II (1-3)

Prereq: soph in music therapy or perm. Selected field experiences in approved clinical facilities; field evaluation of student.

281 Observation, Evaluation, and Research in Music Therapy (3)

Prereq: soph or perm. (fall) Observation and evaluation skill development through classroom videotape, and field data collection and analysis; tests and evaluations; research methods and their application to clinical investigations. 2 lec, 1 lab.

282 Music Therapy Activities for Classroom and Clinic (3)

Prereq: soph. (winter) Development of skills in treatment planning and application including activity design and analysis for problems in all clinical areas.

283 Recreational Music Instruments and Materials (3)

Prereq: soph. (spring) Accompanying instruments and group music activities; special instrumental methods for handicapped.

380 Music Therapy Practicum III (1-3)

Prereq: jr in music therapy or perm. Selected field experiences in approved clinical facilities; field evaluation of student.

381 Psychological Foundations of Music (3)

Prereq: jr in music therapy/music education. Basic study of acoustics, ear and hearing, and psycho-socio-physiological process involved in music behavior.

382 Psychological Foundations of Music II (3)

Prereq: 381. Historical review, theory of music therapy, survey of current literature and trends in music therapy; influence of music on behavior, physiology, emotions, learning, and work performance.

480 Music Therapy Practicum IV (1-3)

Prereq: sr in music therapy or perm. Selected field experience in approved clinical facilities; field evaluation of student.

481 Music Therapy Principles and Techniques I (3)

Prereq: 382 and jr in music therapy. Problems of exceptional children and therapist strategies and techniques for remediation; terminology; treatment settings; other activity therapy approaches and techniques.

482 Music Therapy Principles and Techniques II (3)

Prereq: 481 and jr in music therapy. Problems in psychiatry and rehabilitation and therapist strategies and techniques for remediation; terminology; treatment settings; traditional and current psychotherapeutic and behavioral approaches; other activity therapy techniques and approaches.

483 Music Therapy Principles and Techniques III (3)

Prereq: 482 and sr in music therapy. Program development process for selected clinical populations; administration of music therapy program.

489 Clinical Training in Music Therapy (1)

Prereq: 482 and sr in music therapy. 6 months as full-time music therapy intern at NAMT-approved clinical training facility following completion of sr yr.

Nursing**Associate Degree Program (NURS)**

The following courses for the A.A.S. in nursing are available on the Chillicothe and Zanesville campuses.

100 Introduction to Nursing (1)

Prereq: perm. Introduces new nursing students to associate's degree nursing. Includes exploration of the impact of past, present, and future issues in nursing. Will view the role of the technical nurse within the profession and will consider values and beliefs.

101 Fundamentals of Nursing Care I (7)

Prereq: perm. An introduction to nursing care as it relates to a person's health and environment. Nursing is presented within the program framework of nurses as assisting people in the effective use of functional health patterns (FHPs) through the roles of the nurse as provider of direct care, communicator, and manager of care. Basic concepts, assessments, and fundamental nursing skills related to roles, health perception/health management, activity/exercise, and nutrition/metabolism are presented. Focus on assessment skills.

102 Fundamentals of Nursing Care II (7)

Prereq: perm. Continuation of 101. The roles of the nurse as provider of direct care, communicator, and manager of client care are continued to provide the framework for assisting adult individuals in the use of FHPs. Concepts and skills related to self-perception, values/beliefs, nutritional/metabolic, elimination, cognition/perception, coping/stress, sleep, sexuality. Development of skills and the selection of nursing diagnosis. Further basic nursing skills used to care for the adult client are developed and evaluated.

103 Nursing Care of Individuals I (7)

Prereq: perm. Focuses on the roles of the nurse as provider of direct care, communicator, manager of care for adult clients experiencing alterations in selected FHPs. Alterations in exercise-activity patterns and health perception-health maintenance patterns are addressed. Clinical experiences are selected to enable students to assist these selected clients in promoting, maintaining, and restoring health potential. In addition, students are introduced to new fundamental skills while continuing to master the skills introduced in 101 and 102.

104 Nursing Care of Individuals II (7)

Prereq: perm. Focuses on the roles of the nurse as provider of direct care, communicator, and manager of client care, who promotes, maintains, and restores health to adult clients with alterations in the nutritional/metabolic FHP. This includes clients with alterations in digestion, absorption, metabolism, impairment of skin integrity, and dysfunction of the endocrine glands. Focuses on evaluation of client care. Nursing implications of related pathophysiology, diagnostic tests, medical, surgical, dietary, and pharmacological therapies are included.

201 Nursing Care of Individuals III (6)

Prereq: perm. Focuses on the roles of the nurse as provider of direct care, communicator, and manager of care to provide care to adult clients experiencing alterations in selected FHPs. Alterations in cognitive-perceptual patterns, sexuality-reproductive patterns, elimination patterns, and sleep-rest patterns are addressed. Clinical experiences are selected to enable students to assist these selected clients in attaining, regaining, and maintaining their health potential. Students will continue to practice skills introduced in previous nursing courses, while basic knowledge and skills central to care of clients with these specific alterations in functional health patterns will be introduced.

202 Nursing Care of Individuals IV (6)

Prereq: perm. Focuses on the care of the individual experiencing alterations in FHPs such as value-belief, role-relationship, cognitive-perceptual, self perception, coping-stress tolerance, and health perception-health management patterns. Students gain a better understanding of self and of the individual who is having difficulty in adapting to the stress of everyday life. Consideration given to precipitating factors, prevention, community resources, and treatment modalities. Development of knowledge and specific skills needed in psychiatric nursing.

203 Nursing Care of Individuals V (6)

Prereq: perm. Focuses on the roles of the nurse as provider of direct care, communicator, and manager of care as applied to the maternal-family experience. Primary emphasis on natural and normal process; however, care of clients with alterations in FHPs is included. Classroom and the clinical setting provided for development of knowledge and specific skills needed in the nursing care of maternal and newborn clients.

204 Nursing Care of Individuals VI (6)

Prereq: perm. Focuses on the roles of the nurse as communicator, provider, and manager of care to clients experiencing alterations in FHPs, actual or potential. Modified approach to family-centered care of children from early infancy through adolescence presented with emphasis on growth, development, and communication needs for each age group. Clinical experiences enable student to assist pediatric clients in attaining, regaining, and maintaining their health potential. Students will continue to practice skills introduced in previous nursing courses while basic knowledge and skills central to parent-child nursing practices in hospital, clinic, and home are introduced.

205 Nursing Care of Individuals VII (12)

Prereq: perm. Focuses on the roles of the nurse as provider, communicator, and manager of care for adult clients experiencing alterations in FHPs. Acute alterations in FHP requiring intensive and long-term therapy are addressed. Clinical experiences enable students to assist clients in promoting, maintaining, and restoring their health potential. Focus is on intermediate concepts and challenges in client care. Role transition from student to graduate nurse is explored.

206 Trends and Issues in Nursing (1)

Prereq: perm. Provides an opportunity to further explore role relationships of the nurse advantageous for the transition to registered nursing. Emphasis is placed on exploring current issues, seeking sources of information, and evaluating implications for nursing and the nurse.

250 Independent Study (1-5, max 5)

Prereq: perm. Research, readings, and clinical experiences in selected areas of nursing under direction of faculty member.

290A-Z Current Issues in Nursing**(1-5, max 5)**

Prereq: perm. Series of elective short courses for nursing students at O.U.-Zanesville. RNs and allied health professionals from the local area may enroll.

291A-D Current Issues in Nursing**(1-5, max 5)**

Prereq: perm. See 290A-Z for description.

Baccalaureate Program for RNs (NBSP)**295 Introduction to Baccalaureate Nursing Education (1)**

The philosophy, conceptual framework, and curriculum of the Ohio University School of Nursing. Technical and professional levels of nursing education compared. 1 lec.

300 Transitions in Nursing (5)

Prereq: pre-B.S.N.; B.S.N., school nurse. Focus on issues related to transition from technical to professional nursing. History and development of nursing as a profession; professional practice and the nursing process; nursing theories; nursing research; general systems theory; role theory; Ohio University's School of Nursing's philosophy and conceptual framework. 5 lec.

310 Health Appraisal I (5)

Focus on developing cephalocaudal nursing assessment skills and the ability to draw valid inferences from the data collected. 3 lec, 4 lab.

320 Health Appraisal II (5)

Focus on total health appraisal of individuals. Assessment of various dimensions of health throughout the human lifespan. Nursing process used as framework for nursing practice with emphasis on the individual's responses as holistic, unified system. 5 lec.

330 Family Nursing (5)

Prereq: 310; 320 or concurrent. Focus on nursing care of family system throughout the life cycle. Synthesis of family theory and application of the nursing process will provide the foundation for practice. Independent clinical experience will occur in a variety of settings. 4 lec, 2 lab.

340 Community Health Nursing (5)

Prereq: 320, 330. Focus on nursing care of aggregate systems within a community. Topics include community health nursing roles and basic concepts of community health. Clinical component emphasizes health promotion and disease prevention. Nursing process, collaboration, interpersonal skills, and teaching skills in working with clients from diverse population groups. 3 lec, 4 lab.

360 Management Issues in Nursing (5)

Focus on nursing management through use of a systems approach. Leadership models and behavior at various organizational levels discussed. Critical management strategies introduced. 5 lec.

405 Research: Critique and Methodology (5)

Prereq: 360 or concurrent. Focus on research in nursing practice. Topics include interrelationships among theory, practice and research; theory and science in nursing; nursing practice models; steps in the research process; critiquing of current research; development of a research proposal. 5 lec.

415 Restorative Nursing (5)

Prereq: 405 or concurrent. Focus on nursing care of individuals, families, and groups experiencing alterations in health and the responses to those changes throughout the life cycle. Concepts addressed include loss, pain, crisis, coping, quality of life. Selected professional roles practiced in primary, secondary, and tertiary health care settings. 4 lec, 2 lab.

425 Clinical Applications in Nursing (5)

Prereq: 415. Examination of selected nursing situations and independent clinical professional nursing roles. 2 lec, 6 lab.

435 Ethical and Legal Issues in Nursing (5)

Analysis of the relationships between ethics and the law with close attention given to the issues and decisions that impact professional nursing practice. 5 lec.

445 Strategic Planning in Nursing Care (5)

Prereq: 405. Application of strategic planning concepts to professional nursing practice. Topics addressed are assessment of organizational system and implications for change; accountability and quality assurance; power and influence. Active involvement as change agent and implementation of planned change project. Clinical experience in a variety of settings. 2 lec, 6 lab.

455 Excellence in Nursing (5)

Prereq: 415, 425, 445, last qtr of major. Synthesis course designed to enhance student's knowledge of professional nursing. Past and present issues and trends in nursing examined. Emerging trends and futuristic nursing studied. Content will vary depending upon student needs and interests as well as events occurring in discipline of nursing. 5 lec.

490 Independent Study (1-5)

Prereq: perm. Student chooses a topic of specific interest with the assistance of a faculty member.

491 Current Topics (1-5)

Prereq: Ohio RN licensure.

491A Teaching Strategies in Nursing**491B Gerontic Nursing****491C Critical Care Nursing****Office Administration Technology (OAT)**

The following courses for the A.A.B. in office administration technology (OAT) are available only on the Chillicothe campus. For availability of concentration areas, see the Colleges and Curricula section under University College.

121 Introductory Keyboarding (3)

Introduction to touch keyboarding system with emphasis on correct techniques, mastery of keyboard, simple business correspondence, tabulation, and reports. 3 lec, 2 lab.

122 Intermediate Keyboarding (3)

Prereq: 121. Emphasis on production typing problems and keyboarding speed building. Attention given to development of student's ability to produce mailable copies. Production work involves tabulations, reports, correspondence, and business forms. 3 lec, 2 lab.

123 Advanced Keyboarding (3)

Prereq: 122. Advanced keyboarding problems and techniques, knowledge and skills involved in production keyboarding work using computers. Designed to acquire maximum in production for high-level office employment. 3 lec, 2 lab.

131 Office Communication (3)

Prereq: ENG 150 or equiv. Review of basic English grammar with emphasis on improving capitalization and punctuation for more effective business writing.

141L Legal Secretarial Terminology (2)

Prereq: 121. Intensive course of study in legal terminology and vocabulary including definitions, usage, derivations, and spelling. 2 lec.

141M Medical Secretarial Terminology (2)

Prereq: 121. Structure of medical words and terms. Emphasis on spelling and defining commonly used prefixes, suffixes, root words, and their combining forms. 2 lec.

151 Alphabetic Shorthand (3)

Prereq: 121. Theory and application of alphabetic shorthand system, including development of basic dictation skill. Provides students with sufficient skill to produce mailable letters dictated at moderate rate.

171 Administrative Support I (3)

Prereq: 121. Instruction in general office practices and general office filing. Emphasis on general rules and procedures in filing and records management along with general office routines. Personality development also discussed thoroughly. 3 lec, 2 lab.

171L Legal Secretarial Procedures I (3)

Prereq: 121. Instruction in legal office practices and legal office filing. See 171 for further description. 3 lec, 2 lab.

171M Medical Secretarial Procedures I (3)

Prereq: 121. Instruction in medical office practices and medical office filing. See 171 for further description. 3 lec, 2 lab.

172 Administrative Support II (3)

Prereq: 171. Continuation of 171. Instruction in general office practices and filing.

172L Legal Secretarial Procedures II (3)

Prereq: 171L. Emphasizes machine transcription utilizing complete production units concerning legal correspondence and documents. 3 lec, 2 lab.

172M Medical Secretarial Procedures II (3)

Prereq: 171M. Emphasizes machine transcription utilizing complete production units concerning medical correspondence and documents, such as case histories, articles, and hospital reports. 3 lec, 2 lab.

189 Independent Study (1-5)

Prereq: perm. Studies in selected subject areas in secretarial field. May be repeated up to 5 credit hrs.

218 Office Communications Dictation and Proofreading (3)

Prereq: 121. Introduction to proper procedure for dictating letters and reports; practice effective dictation techniques on equipment; dictate original data from outline to obtain final quality copy. Effective proofreading techniques emphasized.

221 Machine Transcription (3)

Prereq: 121, 122, 131. Student becomes proficient in keyboarding dictation from a transcribing machine. Includes actual operation of machine, development of speed and accuracy in transcription, and mastery of other related transcription skills.

225 Word Processing I (3)

Prereq: 121 or equiv. Theory of word processing including definition of terms and organization of word processing system. Career possibilities explored. Examines difference between word processing system and traditional office structure. Includes tours of word processing centers and some experience working on text editors.

226 Word Processing II (3)

Prereq: 121 or equiv; 225. Continuation of theory of word processing and practical application using dedicated word processing system.

231 Machine Computation (3)

Prereq: MATH 101 or equiv. Students instructed in use of electronic calculators as pertaining to common business computations, accounting, and computer functions.

239 Information Processing (3)

Prereq: 121, 225, 226. Designed to introduce students to word and information processing units with emphasis on personal computer.

248 Administration of Record Systems (3)

Prereq: 171 or equiv. Controlling cost and improving effectiveness of records and information management within business enterprises. Includes control of record creation, maintenance, and disposition through systems analysis; forms management, protection methods.

249 Internship I (2-5)

Prereq: 128, 168, 178, 231. Practical field experience or in-class office simulation. 14-35 lab.

250 Seminar I (2)

Prereq: concurrent with 249. Special topics and problems encountered in field experience discussed. Opportunity to share ideas and experiences and to find possible answers to questions arising in actual working situations.

252 Office Methods, Procedures, and Management (4)

Development of understanding of office procedures, flow of work in offices, interrelationship of offices, filing, telephone techniques, mail regulations, business protocol, and experiences in general office work expectations. 4 lec.

258 Stress Management for Office Personnel (3)

Involves recognition of stress, how to handle stress within yourself, how to assist office personnel in dealing with stress, and implications of time in its relationship to stress.

262 Report and Letter Writing (4)

Prereq: 131 or ENG 150. Extensive and detailed practice in written communication for business, industry, and professions. Involves composition of letters, memoranda, reports. 4 lec.

267 Office Administration (3)

Involves principles and practices of management of flow of information within enterprise. Includes basic management functions of planning, controlling, organizing, and coordinating as applied to office services, physical facilities, systems and procedures, work measurement and standards, and business information systems. 3 lec.

268 Information System Design (3)

Effective use of management techniques and equipment in meeting informational needs of business and industry. How to design optional system utilizing feasibility studies, etc., and how to implement design.

288 Information System Equipment Selection—Acquisition Seminar (2)

Remodeling or designing new facilities, including space management, as well as source, cost, and justification for special equipment and furniture. Use of consultants, feasibility studies reviewed.

289 Special Topics (1-5)

Prereq: perm. Projects concerning secretarial field explored on 1-to-1 basis with instructor.

293 Seminar II (2)

Concurrent with 299. Continuation of discussion concerning special topics and problems encountered in field experience. 2 lec.

298 Practicum in W/P Supervision (2)

Experiences in supervision of word/data processing labs or centers. Responsibilities include assisting W/P trainees, demonstrating equipment to classes/visitors, producing complex documents, designing forms, learning/developing new systems.

299 Internship II (2-5)

Prereq: 249. Practical field experience or in-class office simulation continued. 14-35 lab.

Office Management Technology (OMT)

The following courses for the A.A.B. in office management technology (OMT) are available only on the Lancaster campus. For availability of concentration areas, see the Colleges and Curricula section under University College.

110 Workforce Enhancement (4)

Enhancement of work place skills with emphasis on reading, communication, math, and critical thinking skills as they relate to the world of work.

121 Keyboarding/Word Processing (4)

Introduction to touch system with emphasis on correct techniques, mastery of keyboard, typical business documents, and word processing theory and skills.

122 Word/Information Processing (4)

Emphasis on formatting problems and speedbuilding. Attention given to development of student's ability to function as expert in producing mailable copies. Production work involves tabulations, manuscripts, correspondence and business forms.

130 Grammar/Business English (4)

Basic grammar review with emphasis on capitalization, punctuation, business vocabulary, and introductory business writing.

131 Business Communication I (4)

Prereq: 130 or perm. Development of business writing skills, focusing on appropriate content, tone, and style for letters, memos, and reports covering a variety of business situations. Refinement of usage, punctuation, and capitalization skills.

141L Legal Terminology (2)

Prereq: 121. Intensive course of study in legal terminology and vocabulary, including definitions, usage, derivations, and spelling.

141M Medical Terminology (2)

Prereq: 121. Structure of medical words and terms. Emphasis on spelling and defining commonly used prefixes, suffixes, root words, and their combining forms. 2 lec.

171 Administrative Procedures (4)

Prereq: 121 or equivalent. Instruction in current office procedures and records management, including telecommunications, professional development, and planning of meetings.

189 Independent Study (1-5)

Prereq: perm. Studies in selected subject areas in office management field. May be repeated up to 5 credit hrs.

200 Desktop Publishing I (3)

Prereq: none; 121 recommended. Develops skill in using desktop publishing software. Covers publishing information, graphic design basics, and will prepare students to produce newsletters, brochures, catalogs, etc., that are of professional quality.

201 Desktop Publishing II (3)

Prereq: 200. Continuation of 200. Advanced applications using desktop publishing.

221 Dictation/Transcription (4)

Prereq: 121 and 130, or equivalent. Instruction in manual dictation for notetaking using an abbreviated writing system; development of machine transcription skills for verbatim dictation.

226 Data and Procedures Management (4)

Prereq: 121 or equiv. Database design, creation, and management for creation of typical business documents; development of procedures necessary to create such documents through team effort.

231 Business Calculations (4)

Prereq: MATH 102 or higher placement. Practical mathematical calculations typical of a business situation. Concentration on problem-solving techniques necessary to perform calculations accurately and efficiently.

239 Information Management (4)

Prereq: 121, 226. Designed to introduce students to a variety of software—including integrated hardware and software evaluation processes—using the microcomputer.

249 Internship I (2-5 for each course)

Prereq: 262 or perm. Practical field experience or in-class office simulation. Continued with 299.

250 Seminar I (2)

Prereq: concurrent with 249. Special topics and problems encountered in field experience discussed. Opportunity to share ideas and experiences and to find possible answers to questions arising in actual working situations.

262 Business Communication II (4)

Prereq: 131 or perm. Extensive and detailed practice in written communication for business, industry, and professions. Preparation of employment packet including resume; cover letter; follow-up letter; letters requesting, giving, and thanking references; letters of acceptance and rejection; and letters of resignation. Evaluation of interviewing skills through simulated interview.

267 Office Management (4)

Prereq: 123, 172. Involves principles and practices of management of flow of information within enterprise. Includes basic management functions of planning, controlling, organizing, and coordinating as applied to office services, physical facilities, systems and procedures, work measurement and standards, and business information systems. Emphasis on matters of personnel. 3 lec.

289 Special Topics (1-5)

Prereq: perm. Projects concerning office management field explored on 1-to-1 basis with instructor.

293 Seminar II (2)

Concurrent with 299. Continuation of discussion concerning special topics and problems encountered in field experience.

299 Internship II (2-5)

Prereq: 249. Practical field experience or in-class office simulation continued. 14-35 lab.

Ohio Program of Intensive English (OPIE)

Credit hours listed for OPIE 40, 45, 50, 55, 60, and 99 are not applicable to degree requirements. For English for nonnative speakers applicable to degree requirements, see reference to ENG 150A, 151A in English under ENG 150, 151.

40 Intensive English as a Foreign Language (15)

Full-time intensive study of English as foreign language for students beginning at elementary level. Five classroom practice and recitation hrs daily. Primary emphasis on developing mastery of spoken English. Normally followed by 45.

45 Intensive English as a Foreign Language (15)

Prereq: intermediate proficiency level. Full-time intensive study of English as foreign language. 5 hrs classroom practice and recitation daily. Practice of spoken English continues, but emphasis shifts to written English. May follow 40.

50 Intensive English as a Foreign Language (15)

Prereq: advanced proficiency level. Full-time intensive study of English as foreign language for students beginning at advanced level. 5 hrs classroom practice and recitation daily. Emphasis on both spoken and written English usage. May follow 40 or 45.

55 Semi-intensive English as a Foreign Language (12)

Semi-intensive supplemental study of English as foreign language for students who may enroll in 1 academic course concurrently. 3 hrs of classroom practice and recitation daily. Classroom activity includes both spoken and written English usage, but emphasis on written language practice. May follow either 45 or 50.

60 Supplemental English as a Foreign Language (8)

Semi-intensive supplemental study of English as foreign language for students enrolled in part-time academic program. 2 hrs of classroom practice and recitation daily. Classroom activity includes both spoken and written English usage, but emphasis on written language practice. May follow either 45 or 50 or 55.

99 Special Studies in English as a Foreign/Second Language (1-10)

Provides independent studies for international students on campus (e.g. pronunciation class or English for Special Purposes).

Operations (OPN)

310 Principles of Operations (4)

Prereq: QBA 201 or PSY 121 or ECON 381 or INCO 301 or GEOG 271. More than any other function, operations provides an organization with the capability to compete successfully in the global marketplace. With proper operations management, the firm can provide a product or service of higher quality in less time and at less cost than the competition. Emphasis on conceptual understanding of the operations function and includes the following topics: product/process selection and design, facility location and layout, capacity, material and inventory management, quality, etc.

330 Design in Operation Process (4)

Prereq: 310. Examines various types of manufacturing processes (job shop, batch flow, line flow, continuous flow, hybrid) and service processes (service shop, service factory, mass service, and professional service) and how well each is able to support the various competitive priorities linked with operations. The concept of manufacturing focus and new approaches (e.g., flexible manufacturing systems and cellular manufacturing) that attempt to broaden competitive capabilities of manufacturing systems covered. Real world insights provided through videotapes and facility tours.

340 Managing Quality (4)

Prereq: 310. Covers quality concepts which apply to any method of implementation; quality planning, prevention and cause, and corrective action. Specific methods of implementation. Total Quality Management receives the lion's share of the quarter, but other concepts such as zero defects and quality circles are also presented.

410 Logistics in Operations (4)

Prereq: 310. Based on the broad view of logistics, namely all operations along the commercial chain, from raw materials purchasing, to delivery, to the final customer. Topics include purchasing, warehousing, forecasting, staffing, aggregate planning, master production planning, production activity control, MRP, and MRP II.

411 Production/Operations Planning and Control (4)

Prereq: 310 and perm. Details of methodologies and quantitative techniques used in planning and control phases in production/operation are emphasized.

412 Production/Operations Management Problems (4)

Prereq: 310 and QBA 314. Analysis of production management problems in various industries and technologies.

420 Problems and Models in Operations (4)

Prereq: 310. Provides students with an appreciation for the potential of analytical models to offer insight and guidance in problems faced by operations managers. Emphasis on examining a number of specific problems, developing an appropriate model, examining the model solution, and assessing the potential for implementation. All solutions computer generated. Methods examined to the extent needed to allow informed interpretation of results.

430 Operations Strategy (4)

Prereq: 310. Deals with such major strategic issues as technological change, vertical integration, and facilities configuration. Focuses on the role and responsibilities of senior executives. Topics covered include defining the mission of operations; operating policy formulation and implementation; technological, economic, and human constraints on the design and management of operating systems. New process technologies such as cellular manufacturing, synchronized manufacturing, flexible manufacturing systems, optimized production technology (OPT), computer integrated manufacturing (CIM), and CAD/CAM examined. Covers contemporary issues such as just-in-time, concurrent engineering, time-based competition, and organization.

440 Managing Operations (4)

Prereq: 310. Considers operations from the management perspective. The operations function's role in firm competitiveness discussed. Micro-management skills necessary for operations managers such as communication, negotiations, community, customer and vendor relations, dealing with union and non-union workplaces, leadership and motivation, and task-force management covered.

497 Independent Research (1-4)

Prereq: written proposal and perm. Independent research. Course content determined by professor and student.

498 Internship (1-4)

Prereq: perm

Philosophy (PHIL)

The major requirement for the A.B. degree consists of a minimum of 40 hours, including 310, 312, 320, and at least three courses numbered above 400.

The general requirement for the philosophy minor is 25 hours, at least 20 of which must be courses numbered 200 or above. For more information, contact the Department of Philosophy.

Students may begin their study of philosophy with courses at the 100, 200, or 300 level, except as limited by specific prerequisites.

100 Summer Scholar Independent Studies (1-5)

Prereq: perm. A variable content, variable credit reading course allowing Summer Scholar students to pursue traditional and contemporary philosophical issues. Readings and discussions may be directed toward the interests of the students and emphasis will be given to improving students' writing.

101 Fundamentals of Philosophy (5) (2H)

Survey of selected basic problems, concepts, and methods in philosophy.

120 Principles of Reasoning (4) (1M)

Basic concepts of logic and techniques for judging validity of arguments introduced. System for symbolizing arguments and deriving conclusions from premises employed. Some of following topics also covered: informal fallacies in reasoning, syllogistic or Aristotelian logic; Venn diagrams, truth tables. Most sections are traditional lecture/test format, some taught in computer-assisted format, others use self-paced approach.

130 Introduction to Ethics (4) (2H)

Discussion of classic and/or modern philosophical views of human values, ideals, and morality. Provides introductory survey of some main problems, concepts, and results of ethics including selected philosophers of past and present.

160 Introduction to Religion (5) (2H)

Definition of religion and analysis of its various aspects including ritual, social, experiential, and symbolic.

216 Philosophy of Science Survey (3) (2H)

Non-technical survey of types, testing, and credibility of hypotheses; methods of experimental inquiry; measurement; laws, theories and their role in explanation, concept formation.

231 Philosophy of Sport (4)

Prereq: soph. Philosophical exploration into nature, meaning, purposes, values, and ideals of sport. Topics include goods and evils of competition, nature of sports experience, winning and losing, aesthetic and ethical dimensions of sport, ultimate athlete, scholastic athletics, philosophy of physical education, concept of sportsmanship, etc.

232 Philosophy of Art (3) (2H)

Conceptual analysis of common assumptions, attitudes, theories, and ideas about arts, their criticism, and appreciation.

235 Business Ethics (3)

Prereq: soph. Examination of moral reasoning as it pertains to institutions and practices of contemporary business. First half is devoted to basic ethical concepts and analysis of basis for acceptable ethical theory, investigation of role of government and society in their relationship to business, and value assumptions behind competing social and political systems business personnel encounter in today's global marketplace. Second half examines specific case studies.

240 Social and Political Philosophy (4) (2H)

Introduction to major philosophical theories concerning nature of social and political communities including those offered by Plato, Aquinas, Hobbes, Locke, Mill, and Rawls. Consideration of some significant specialized problems in social and political theory including distributive justice, civil disobedience, liberty, punishment, etc.

250 Philosophy of Mind (4)

Mind-body problem; concept of self; human-machine relation; problem of other minds.

260 Philosophy of Religion (4) (2H)

Problems in nature of religion, existence and nature of God; problem of evil, immortality, and religious language.

297T Philosophy Tutorial (1-10)

Prereq: Honors Tutorial College students only. (fall)
1st-yr tutorial studies in philosophy.

298T Philosophy Tutorial (1-10)

Prereq: Honors Tutorial College students only. (winter)
1st-yr tutorial studies in philosophy.

299T Philosophy Tutorial (1-10)

Prereq: Honors Tutorial College students only. (spring)
1st-yr tutorial studies in philosophy.

310 History of Western Philosophy: Ancient (5) (2H)

Significant ideas of representative Greek and Roman philosophers.

311 History of Western Philosophy: Medieval and Renaissance (5) (2H)

Augustine to Bruno and Campanella.

312 History of Western Philosophy: Modern (5) (2H)

Descartes to Hume and Kant.

314 19th Century European Philosophy (4)

Subjects selected from French, German, and British philosophers of 19th century.

320 Symbolic Logic I (5)

Techniques of modern symbolic logic.

330 Ethics (5)

Study focusing on specific philosopher, or one type of ethical or value theory.

331 Moral Problems in Medicine (5)

Prereq: soph. Philosophical investigation of complex moral problems engendered by modern medicine, e.g., death with dignity, human experimentation, allocation of scarce medical resources, birth defects, killing or letting die, informed consent, etc. Basic philosophical concepts underlying these problems explored, including autonomy, coercion, normality, naturalness, rights, justice, responsibility, personhood, etc.

332 Philosophy of Sex and Love (4)

Prereq: jr. Philosophical and evaluative investigation into subject of sexual love and Western morality. Topics include roles and relations between sexes, abortion, monogamy, sexual perversion, homosexuality, promiscuity, adultery, semantics of sex, etc.

333 Philosophy of Literature (3)

Prereq: jr. (on demand) Examines nature of fictional literature as differentiated from other types of writing. Explores philosophical ideas within specific works of fiction, concentrating on problems of translating philosophical content into literary form, interpretation, belief, truth, and artistic integrity.

350 Philosophy of Culture (5)

Philosophical studies of humankind as culture-creating being.

351 Philosophy of Language (4)

Prereq: 6 hrs in philosophy, including 120 or 320. Theories of meaning and reference and their philosophical significance, relations of meaning to verification and truth, and relationship between language and concepts.

358 Existentialism (4)

Prereq: 9 hrs in philosophy. Existential thought from Kierkegaard to Camus stressing such themes as freedom, existence, despair, authenticity, alienation, death, and revolt against system.

360J Writing About Religion (4) (1J)

Prereq: first year comp, jr, 160, or perm. Study of vocabulary and communication problems in written description and analysis of religious phenomena. Writing projects in various styles, from reports of personal experience to scholarly research.

361 Old Testament (5) (2H)

Background and development of Old Testament; its philosophical, moral, and religious significance.

362 New Testament (5) (2H)

Background and development of New Testament; philosophical, moral, and religious significance of beliefs of Jesus, Paul, and early Church.

370 Hinduism (4) (2T)

Vedic religion, Hinduism, Jainism.

371 Buddhism (4) (2T)

Introduction to doctrines, origins, and varieties.

372 Islam (4) (2T)

Introduction to basic ideas, history, and background.

373 American Religions (4)

Prereq: jr. (on demand) Christianity, Judaism, and other religions and developments in U.S.

397T Philosophy Tutorial (1-10)

Prereq: Honors Tutorial college students only. (fall)
2nd-yr tutorial studies in philosophy.

398T Philosophy Tutorial (1-10)

Prereq: Honors Tutorial college students only. (winter)
2nd-yr tutorial studies in philosophy.

399T Philosophy Tutorial (1-10)

Prereq: Honors Tutorial college students only. (spring)
2nd-yr tutorial studies in philosophy.

413 Philosophy and Freudian Analysis (5)

Prereq: PSY 332 or 233. The philosophical and scientific presuppositions of Freudian psychology (including Freud's methodology) will be identified and subjected to rigorous philosophical analysis. Freud's early thought on hysteria, dreams, sexuality, and psychoanalysis will be emphasized. Recent attacks on the legitimacy of psychoanalysis will be examined. Alternative schemes for understanding human behavior will also be discussed.

414 Analytic Philosophy (5)

Prereq: 4 philosophy courses. Selected topics in contemporary Anglo-American philosophy from Moore to Wisdom.

416 Philosophy of Science (5)

Prereq: 216 and 320. Selected problems in logic and methodology of sciences.

417 Philosophy of Logic (5)

Prereq: 320. (on demand) Philosophical problems connected with formal logic and its relationship to language and reality. Topics include methodology of logic as science, analyticity and necessary truth, meaning and logical form, relationship of logic to natural language, concept of translation, and relation of logic to ontology.

418 Plato (5)

Prereq: 4 philosophy courses, including 310.

419 Aristotle (5)

Prereq: 4 philosophy courses, including 310.

420 Symbolic Logic II (5)

Prereq: 320. Informal and formal deductive systems, logic of relations, class logic.

421 Proof Theory (5)

Prereq: 320 or equiv. (on demand) Syntax and semantics of formal theories.

422 Computability (5)

Prereq: 320. (on demand) Algorithms, recursive functions, Turing machines, decidability.

423 Modal and Many-Valued Logics (5)

Prereq: 320. (on demand) N-valued logics, modal logic.

428 Continental Rationalism (5)

Prereq: 4 philosophy courses, including 312. (alternate yrs) Descartes, Spinoza, Leibniz.

429 British Empiricism (5)

Prereq: 4 philosophy courses, including 312. (alternate yrs) Locke, Berkeley, Hume.

430 Contemporary Ethical Theory (5)

Prereq: 4 philosophy courses, including 130, 240, 330, or 442. Significant current literature in selected topics of moral, social, political, and legal philosophy.

431 History of Aesthetic Theory (5)

Prereq: 4 philosophy courses. Readings from Plato to Dewey and relation of these theories to selected arts and recent criticism.

432 Problems in Aesthetics (5)

Prereq: 9 hrs philosophy, literature, or art. For students interested in arts but not necessarily in issues primarily of interest to philosophers. Writings drawn from modern sources on theory of art, aesthetic criticism, creativity, truth in art, aesthetic value.

438 Kant (5)

Prereq: 4 philosophy courses, including 312. Kant's Critique of Pure Reason with attention given to his ethical theory.

440 Contemporary Social Philosophy (5)

Prereq: 330 or 240 or 442 and 3 other philosophy courses. Consideration of any number of various issues in contemporary, social, political, and legal philosophy. Possible topics: theories of distributive justice, culpability, causality and responsibility, legal and moral rights, etc.

442 Philosophy of Law (5)

Prereq: 3 philosophy courses or perm. Consideration of nature and justification of law and examination of some specialized topics in philosophy of law, including ascription of responsibility, civil disobedience, theories of punishment, liberty, etc.

444 Philosophy of Marxism (5)

Prereq: 4 philosophy courses. Philosophical inquiry into classical and contemporary Marxist thought stressing Marx, Engels, Lenin, Stalin, Mao, and several contemporary Marxists such as Praxis group of Yugoslavia.

448 Pragmatism (5)

Prereq: 4 philosophy courses. Peirce, James, Dewey, and other American thinkers.

450 Theory of Knowledge (5)

Prereq: 4 philosophy courses, including 312. Critical examination of various views of what knowledge is and how it is attained.

451 Metaphysics (5)

Prereq: 4 philosophy courses, including 310 or 312. Basic alternative conceptions of world, and such topics as nature of substance, causality, self, freedom, space, and time.

452 Myth and Symbolism (5)

Prereq: 4 philosophy courses. Characteristic expressions of thought in primitive societies and theories concerning primitive mentality.

458 Contemporary European Philosophy (5)

Prereq: 4 philosophy courses, including 358 and 468. Phenomenology and existentialism as seen in Husserl, Heidegger, Scheler, Hartman, Dilthey, Cassirer, Gebser, Ingarden, Sartre, Camus, Marcel, Merleau-Ponty, and Ricoeur.

460 Contemporary Religious Thought (5)

Prereq: 4 philosophy courses. (on demand)
Representative thinkers such as Tillich, Buber, and others.

468 Phenomenology (5)

Prereq: 4 philosophy courses, including 312. Method and philosophy of phenomenological movement from Husserl to Merleau-Ponty.

475 Chinese Philosophy (5)

Prereq: 4 philosophy courses, including 371. Major Chinese philosophers and schools of thought from earliest times to present.

476 Indian Philosophy (5)

Prereq: 4 philosophy courses, including 370. (on demand) Classical Hinduism.

477 Buddhist Philosophy (5)

Prereq: 4 courses, including 371. (on demand) Abhidharma, Madhyamika, Yogacara, Zen, and other philosophical doctrines of Buddhism.

478 African Philosophy (5)

Prereq: jr. Critical examination of question, debated today among African philosophers, whether traditional African thought systems should be regarded and developed as philosophical systems, and survey of most significant of these thought systems.

491 Seminar in Philosophy (1-15, max 15)

Prereq: 5 philosophy courses. Selected problems.

497 Independent Reading (1-9, max 12)

Prereq: perm of chair.

497T Philosophy Tutorial (1-10)

Prereq: Honors Tutorial College students only. (fall)
3rd-yr tutorial studies in philosophy.

498T Philosophy Tutorial (1-10)

Prereq: Honors Tutorial College students only. (winter)
3rd-yr tutorial studies in philosophy.

499 Senior Thesis (3-15)

Prereq: perm. Must be enrolled in each of three senior quarters to achieve honors in philosophy. Research and writing of long philosophical paper.

499T Philosophy Tutorial (1-10)

Prereq: Honors Tutorial College students only. (spring)
3rd-yr tutorial studies in philosophy.

Physical Therapy (PT)

259A Introduction to Physical Therapy (2)

(fall, spring) Designed for those students who are considering physical therapy as a career option. Presentations and topics of discussion will attempt to bring the student to an understanding of the physical therapy profession and the requirements for entry into the profession. 2 lec.

410 Human Anatomy and Dissection (7)

(summer) Detailed study of gross structures of extremities and body wall with emphasis on musculoskeletal, neuromuscular, respiratory, and cardiovascular structures. Relationships of structure to normal and abnormal function stressed. Includes surface inspection, palpation, analysis of radiographic studies, and dissection. 4 lec, 8 lab.

425 Principles of Clinical Teaching (4)

Prereq: 431. (spring) Application of educational theories, practices, and procedures to developing, implementing, and evaluating instructional programs for patients, families, community groups, physical therapy students, and health care providers. Emphasis placed on unique demands imposed on education by consumer's health care needs, clinical environment, and health care organization and delivery. 4 lec.

426 Research Seminar in Physical Therapy (4)

Prereq: 431. (winter) Application of research principles and procedures to critical analysis of physical therapy related research literature; identification and development of a researchable problem in physical therapy. 4 lec.

431 Role Issues in Physical Therapy (4)

Prereq: perm. (summer) Major philosophical and substantive issues confronting physical therapists and other professionals involved in health care delivery discussed. Includes historical perspectives, ethics, accreditation, legal requirements, and roles and responsibilities of various health care disciplines. Course content developed around role problems. 4 lec.

441 Community Practice Problems I (3)

Prereq: 431. (fall) Participation in planning, development, delivery, and evaluation of patient care and administrative, educational, and consultative services in surgical therapy or community health. Students assigned to variety of community-based physical therapy units and health care agencies. 2 lec, 3 lab.

442 Community Practice Problems II (3)

Prereq: perm. (winter) Continuation of 441. 2 lec, 3 lab.

443 Community Practice Problems III (3)

Prereq: perm. (spring) Continuation of 442. 2 lec, 3 lab.

444 Community Practice Problems IV (3)

Prereq: perm. (fall) Continuation of 443. 2 lec, 3 lab.

446 Community Practice Problems V (3)

Prereq: perm. (winter) Continuation of 444. 2 lec, 3 lab.

447 Clinical Practicum I (5)

Prereq: 431. (fall) Concentrated, supervised course of study in clinical education facility wherein students are given opportunity to develop clinical skills in planning, development, implementation, and evaluation of patient care services.

448 Clinical Practicum II (7)

Prereq: 443. (summer) Participation in planning, developing, implementing, and evaluating patient care and educational, administrative, and consultative services in affiliated physical therapy service units.

449 Clinical Practicum III (12)

Prereq: 446. (spring) Participation in planning, developing, implementing, and evaluating patient care and educational, administrative, and consultative services in variety of affiliated community-based physical therapy service units and health care agencies.

450 Introduction to Clinical Problems (4)

Prereq: perm. (summer) Introductory course in which students learn how to utilize biomechanical principles in selected aspects of patient care, i.e., transfers and positioning, assessment of joint range of motion and muscle function, and basic massage techniques. Principles and techniques will be applied to simple patient problems. 3 lec, 2 lab.

451 Musculoskeletal Problems I (5)

Prereq: 450. (fall) Presentation of patient problems involving musculoskeletal dysfunction commonly seen in physical therapy. Each problem incorporates content from basic, social, and clinical sciences, as well as physical therapy arts and sciences. Lecture, laboratory, and clinical experiences assist students in solving each problem. 3 lec, 4 lab.

452 Musculoskeletal Problems II (5)

Prereq: 451. (spring) Continuation of 451. Emphasizes musculoskeletal problems associated with hereditary factors, environmental factors, or disease. 3 lec, 4 lab.

453 Musculoskeletal Problems III (4)

Prereq: 452. (fall) Emphasizes common musculoskeletal problems of the vertebral column, pelvis, and temporomandibular joint. Knowledge, skills, and problem-solving capabilities are developed in a manner consistent with that encountered in clinical practice. Each unit includes anatomy, pathological anatomy, pathophysiology, arthrokinematics, and continued refinement and development of evaluation and treatment techniques. Therapeutic exercise and physical modalities will be presented, analyzed, and applied to clinical problems. 3 lec, 2 lab.

455 Neuromuscular Problems I (5)

Prereq: 431. (fall) Presentation of patient problems involving neuromuscular dysfunction associated with trauma or pathology of spinal or peripheral structures. Content of each problem incorporates basic, social, and clinical sciences and physical therapy arts and sciences. Lecture, laboratory, and clinical activities assist students in solving each problem. 3 lec, 6 lab.

456 Neuromuscular Problems II (5)

Prereq: 455. (spring) Physical therapy evaluation, treatment, and documentation of developmental patient problems related to central nervous system dysfunction in infants, children, and adolescents. Lecture, laboratory, and clinical laboratory experiences help students in solving each problem. 3 lec, 6 lab.

458 Topics in Cardiovascular Evaluation (3)

Prereq: 431. (winter) Designed to provide students with knowledge and skills required to interpret and perform complex cardiovascular evaluation techniques. 2 lec, 2 lab.

459 Medical-Surgical Problems I (4)

Prereq: 431. (winter) Presentation of general medical-surgical patient problems commonly seen in physical therapy. Each problem incorporates basic, social, and clinical sciences and physical therapy arts and sciences. Lecture, laboratory, and clinical activities assist students in solving each problem. 3 lec, 2 lab.

460 Critical Analysis of Physical Therapy Evaluation Procedures (3)

Prereq: 431. (fall) Designed to give student physical therapists skills necessary to analyze physical therapy management and evaluation procedures. Students apply analytic skills to problems related to reliability, validity, accuracy, and precision of physical therapy evaluation procedures used in assessment of musculoskeletal, cardiopulmonary, and neuromuscular patient problems. Problems related to effectiveness of programs designed to address patient problems analyzed. 3 lec.

480 Cardiopulmonary Problems (4)

Prereq: 410. (winter) Covers patient problems involving cardiovascular and respiratory dysfunction commonly seen in physical therapy. Each problem incorporates content from basic, social, and clinical sciences and physical arts and sciences. Lecture, laboratory, and coordinated clinical activities assist students in solving each problem. 3 lec, 2 lab.

481 Medical-Surgical Problems II (4)

Prereq: 459. (winter) Designed to provide students with opportunities to incorporate the knowledge and skills of medical-surgical problems with physical therapy knowledge and skills. Emphasis on complex medical-surgical problems, advanced evaluation and treatment techniques, and interdisciplinary health care issues. 3 lec, 2 lab.

490 Independent Study (1-4)

Prereq: 431. Supervised study of selected topics in or related to physical therapy.

493 Neuromuscular Problems III (5)

Prereq: 455, 456. (winter) Physical therapy evaluation, treatment, and documentation of complex patient problems related to central nervous system dysfunction in adults. Lecture, laboratory, and clinical laboratory experiences help students in helping solving each problem. 3 lec, 4 lab.

494 Problems in Positioning (2)

Prereq: 431. (fall) Designed to help student physical therapists learn to augment physical therapy plans of care by integrating the use of orthotics, casts, wheelchairs, and adaptive positioning systems. 2 lec.

Physics and Astronomy

The minimum requirement for the A.B. degree with a major in physics is 36 quarter hours, including a sequence of beginning courses, 210, 251, 252, 253, and 351, 352. This degree is recommended for students who (1) want a general education with emphasis on physics; (2) have plans for further education or employment in an interdisciplinary area or desire a dual major in physics and chemistry, biological sciences, geological sciences, etc.

For those who want to teach physics in high school, the requirements may be met by completing the physics major program listed under the College of Education.

The minimum requirement for the B.S. degree with a major in physics is 56 quarter hours. This must include a sequence of beginning courses of 210, 251, 252, 253. In addition, the following advanced courses are specifically required: 272, 273, 311, 312, 351, 352, 371, 372, 373, 411, 427, 428. The requirements in mathematics are 263A, 263B, 263C, 263D, 340, 440, 441. The Department of Physics and Astronomy also requires 12 quarter hours of natural sciences other than physics and mathematics for the B.S. regular degree. Elective courses in astronomy above 200 level may be used to satisfy portions of this 12 hour requirement.

The minor in physics consists of a minimum of 30 hours with 10 hours at or above the 300 level.

Students who plan to enter graduate study in physics or astronomy will find a curriculum listed under Preparation for Advanced Training in the College of Arts and Sciences' Special Curricula section. An applied physics program and programs for students interested in meteorology are also listed under this section. Students planning to enter graduate study are urged to complete the foreign language requirement in German, French, or Russian.

Selected students may enroll in the physics tutorial program through the Honors Tutorial College. Students in this program have the option of taking engineering physics for which a curriculum is listed under the Honors Tutorial College section.

Completion of the requirements for either the A.B. or B.S. degree program above completes the Arts and Sciences College requirements of at least nine hours in the major at the junior-senior level.

All students interested in pursuing any of the physics programs described above should contact the chair of the Department of Physics and Astronomy.

Astronomy (ASTR)

100 Survey of Astronomy (4) (2N)

Nontechnical course requiring no mathematics background. Topics covered: origins and history of astronomy; nature of astronomical observations and instruments; solar system; comets, meteors, and meteorites; sun and stars; origin and evolution of stars; structure of our galaxy; pulsars; quasars; galaxies; expanding universe; cosmology. Also listed as PSC 100. 4 lec.

100D Moons and Planets: The Solar System (4) (2N)

Look at solar system, sun, moons, and planets, through eyes of modern science. Space program, Apollo to present, and what we have learned from it. Selected readings and NASA films. Also listed as PSC 100D. 4 lec.

140 Observational Astronomy Laboratory (1) (2N)

Experience with telescopes and locating stars, planets, and deep-sky objects in the night sky. Also covers major constellations, seasonal variations, lunar cycles, and, when appropriate, eclipses and comets. Meets at night only. Also listed as PSC 140. 2 lab.

300 The Solar System (3)

Prereq: PHYS 352. Origin of the solar system. The sun and the solar wind. Planetary surfaces, interiors, atmospheres, and magnetism. Tides and their consequences.

301 Theoretical Astronomy: Stellar Evolution (3)

Prereq: PHYS 352. Origin and evolution of stars. Properties of the interstellar medium and main-sequence stars. Evolution of giants novae, supernovae, white dwarves, and neutron stars.

302 Theoretical Astronomy: Galaxies and Cosmology (3)

Prereq: 301 and PHYS 352 or perm. Structure of our own galaxy, differential rotation, nature and origin of the spiral arms, the interstellar medium. Physical properties of galaxies and their distribution in space. Active galaxies and quasars, supermassive black hole model of active galactic nuclei. Expansion of the universe and Hubble's law, methods of measurement of cosmic distances. General relativity theory and the large scale structure of the universe. Theories of the origin of the universe, the hot big-bang model, observational evidence, the microwave background radiation, cosmic nucleosynthesis.

310 Astronomy Laboratory (1-3)

Prereq: PHYS 352, and perm. Repeated enrollment. Telescope observations and other laboratory studies dealing with astronomy.

350 Celestial Mechanics (4)

Prereq: 301, and MATH 340. (on demand) Differential equations of planetary motion; vector treatments of 2 body problem; determination of orbits of planets and satellites.

450 Studies in Astronomy (1-3, arranged)

Prereq: 302 and perm.

Physical Science (PSC)

100 Survey of Astronomy (4) (2N)

Nontechnical course requiring no mathematics background. Topics covered: origins and history of astronomy; nature of astronomical observations and instruments; solar system; comets, meteors, and meteorites; sun and stars; origin and evolution of stars; structure of our galaxy; pulsars; quasars; galaxies; expanding universe; cosmology. Also listed as ASTR 100. 4 lec.

100D Moons and Planets: The Solar System (2N)

Look at solar system, sun, moons, and planets, through eyes of modern science. Space program, Apollo to present, and what we have learned from it. Selected readings and NASA films. Also listed as ASTR 100D. 4 lec.

101 Physical World (5) (2N)

Designed for nonscience majors. Fundamental ideas of measurement, motion, energy, electricity and magnetism, heat, atomic and nuclear physics. Introduction to relativity and quantum phenomena. 4 lec.

101L Physical World (5) (2N)

Designed for nonscience majors. Fundamental ideas of measurement, motion, energy, electricity and magnetism, heat, atomic and nuclear physics. Introduction to relativity and quantum phenomena. 4 lec, 2 lab.

105 Color, Light, and Sound (4) (2N)

Designed for nonscience majors. Physical nature of light and sound including transmission, absorption, reflection, interference, and resonance. Applications include analysis of musical instruments, acoustics, optical systems, perception of color and sound. 4 lec.

105L Color, Light, and Sound (5) (2N)

Designed for nonscience majors. Physical nature of light and sound including transmission, absorption, reflection, interference, and resonance. Applications include analysis of musical instruments, acoustics, optical systems, perception of color and sound. 4 lec, 2 lab.

111 The Metric System (1)

Introduction to International (Metric) System of Units (SI) through lecture and laboratory experience. Topics include: history of and rationale for SI; SI and its rules for use; metric computation and conversion techniques. Not offered on Athens campus.

140 Observational Astronomy Laboratory (1) (2N)

Experience with telescopes and locating stars, planets, and deep-sky objects in the night sky. Also covers major constellations, seasonal variations, lunar cycles, and, when appropriate, eclipses and comets. Meets at night only. Also listed as ASTR 140. 2 lab.

Physics (PHYS)

201 Introduction to Physics (5) (2N)

(fall, winter) 1st course in physics; open to students from all areas. Students should have high school level algebra and trigonometry, but no calculus required. Recommended for students in liberal arts, architecture, industrial technology, geological sciences, plant biology, and premedicine. Mechanics of solids and liquids. 3 lec, 2 lab, 1 recit.

202 Introduction to Physics (5) (2N)

Prereq: 201. (winter, spring) Continuation of 201. See 201 for description. Includes electricity, magnetism, heat, thermodynamics, waves, and sound. 3 lec, 2 lab, 1 recit.

203 Introduction to Physics (5) (2N)

Prereq: 202. (spring, fall) Continuation of 201 and 202. See 201 for description. Includes light, relativity, quantum, atomic, and nuclear physics. 3 lec, 2 lab, 1 recit.

210 Physics Seminar (1)

Prereq: physics major or perm. Provides overviews of classical mechanics, relativity, and contemporary physics. Films and current science news will be used to search for student interest in future study.

251 General Physics (5) (2N)

Prereq: MATH 263A. Classical physics with calculus and vectors. Newtonian mechanics, rotational dynamics, gravitation. 3 lec, 2 lab, 1 recit.

252 General Physics (5) (2N)

Prereq: 251 and MATH 263B. Classical physics with calculus and vectors. Fluids, wave phenomena, optics, thermal properties of matter, heat and thermodynamics. 3 lec, 2 lab, 1 recit.

253 General Physics (5) (2N)

Prereq: 252. Classical physics with calculus and vectors. Electricity and magnetism. 3 lec, 2 lab, 1 recit.

270 Special Studies (1-4)

Prereq: perm. Special studies in physics under supervision of faculty member.

272 Electronics Laboratory (2)

Prereq: 253 and phys major or perm. (winter) Circuit analysis, electronic measurements, semiconducting devices and instrumentation from DC to microwaves. 4 lab.

273 Electronics Laboratory (2)

Prereq: 272 and phys major or perm. (spring) Circuit analysis, electronic measurements, semiconducting devices, and instrumentation from DC to microwaves. 4 lab.

297T Physics Tutorial (1-15)

Prereq: Honors Tutorial College students only. (fall) 1st yr tutorial studies in physics.

298T Physics Tutorial (1-15)

Prereq: Honors Tutorial college students only. (winter) 1st yr tutorial studies in physics.

299T Physics Tutorial (1-15)

Prereq: Honors Tutorial College students only. (spring) 1st-yr tutorial studies in physics.

303 Digital Computing Methods in Physics (4)

Prereq: phys major or perm. Practical computer programming (FORTRAN, etc.) with special emphasis on problems in physics. 4 lec.

311 Mechanics (4)

Prereq: 253 or 315; MATH 340. (fall) Fundamentals of physical mechanics using vector analysis and ordinary differential equations. Particle dynamics, accelerating reference systems, central forces and celestial mechanics.

312 Mechanics (4)

Prereq: 311. (winter) Continuation of 311. Many-particle systems, rigid body dynamics, Lagrangian methods, and small oscillations.

316 Contemporary Physics for Scientists and Engineers (3)

Prereq: 253, or EE 321. Introduction to quantum theory and relativity: selected topics in atomic, nuclear, and solid state physics. 3 lec.

351 Modern and Quantum Physics (4)

Prereq: 253. Introduction to relativity and quantum theory. Particle and wave propagation, 3-dimensional hydrogen atom.

352 Modern and Quantum Physics (4)

Prereq: 351. Quantum effects, nuclear and particle physics, statistical physics, molecular and solid state physics; astrophysics, general relativity, and cosmology.

371 Intermediate Laboratory (Electrons) (2)

Prereq: 352 or perm. Fundamental experiments on electron properties including charge and mass, wave properties, atomic binding, spin, and conduction.

372 Intermediate Laboratory (Photons) (2)

Prereq: 352 or perm. (winter) Experiments in optics, lasers, X-rays and spectroscopy. 4 lab.

373 Intermediate Laboratory (Nucleons) (2)

Prereq: 352 or perm. (spring) Nuclear decay modes and α , β , γ -ray spectroscopy. Nuclear reactions and scattering. Principles of operation of α , β , γ and neutron detectors and data acquisition systems.

397T Physics Tutorial (1-15)

Prereq: Honors Tutorial College students only. (fall) 2nd-yr tutorial studies in physics.

398T Physics Tutorial (1-15)

Prereq: Honors Tutorial College students only. (winter) 2nd-yr tutorial studies in physics.

399T Physics Tutorial (1-15)

Prereq: Honors Tutorial College students only. (spring)
2nd-yr tutorial studies in physics.

411 Thermodynamics (4)

Prereq: 253, MATH 340. (fall) 1st and 2nd laws of thermodynamics, phase changes and entropy. Temperature, thermodynamic variables, equations of state, heat engine. 3 lec.

412 Kinetic Theory and Statistical Mechanics (4)

Prereq: 411. (winter) Kinetic theory, transport phenomena of gases, and introduction to classical and quantum statistics. 3 lec.

420 Acoustics (3)

Prereq: 312, MATH 340, or perm. (spring, odd yrs)
Vibration, sound radiation, sound propagation, and practical aspects of sound. 3 lec.

423 Geometrical and Physical Optics (4)

Prereq: 253, MATH 441, or perm. Reflection, refraction, lenses, polarization, birefringence, interference, diffraction, coherence, and selected introductory topics in modern optics. 4 lec.

427 Electricity and Magnetism (4)

Prereq: 253, MATH 340 and 440. (fall) Circuits and electric and magnetic fields. Topics on field sources, potentials, Gauss' law, polarization and dielectrics, magnetic induction. 3 lec.

428 Electricity and Magnetism (4)

Prereq: 427. (winter) Electric and magnetic fields. Topics on magnetic potentials, magnetic forces, Faraday law, magnetic materials, capacitance and inductance, energy of charge and current distributions, time-varying current. 3 lec.

429 Electromagnetism and Relativity (3)

Prereq: 428. (spring) Advanced topics in electromagnetism; Maxwell's equations and electromagnetic waves, special relativity and Lorentz transformation. 3 lec.

431 Electronics Laboratory (3)

Prereq: perm. Experiments in electronic measurement techniques from simple A.C. and digital circuits to microprocessors and analyzers. 6 lab.

451 Quantum Mechanics (4)

Prereq: 352, MATH 441 or perm. Classical background, early work, some observables and Hermitian operators, representations, symmetry and conservation laws, One-dimensional Schrodinger equation solutions in the position and momentum representation. Some problems in two dimensions. Philosophical issues and quantum paradoxes. 4 lec.

453 Nuclear and Particle Physics (4)

Prereq: 352. (spring) Descriptive treatment of nuclear phenomena. Elementary theory of nucleon-nucleon interaction. Systematics of nuclear structure (shell model and collective model). Properties and interactions of fundamental particles. Devices and techniques of nuclear and high energy physics. 3 lec.

470 Special Problems (1-4)

Prereq: 22 hrs. Supervised research problems of limited scope in experimental and theoretical physics.

471 Solid State Physics (4)

Prereq: 352, 412. (spring, even yrs) Fundamental properties of solid state of matter. 3 lec.

475 Advanced Laboratory (1 hr per sec, max 3)

Prereq: 373 or perm. Wide selection of experiments from many areas of physics. Limit of 2 students per section. Student may select up to 3 different sections each year.

490H Honors Thesis (1-6)

Prereq: Honors Tutorial students or departmental honors candidates only. Perm of director of honors studies. Supervised research work in physics, astronomy, or engineering physics, intended for submission for undergrad honors.

493 Undergraduate Seminar (1)

Prereq: 3 important areas of current interest in field of physics, history of physics, development of ideas in physics, and other aspects of physics.

497T Physics Tutorial (1-15)

Prereq: Honors Tutorial College students only. (fall)
3rd-yr tutorial studies in physics.

498T Physics Tutorial (1-15)

Prereq: Honors Tutorial College students only. (winter)
3rd-yr tutorial studies in physics.

499T Physics Tutorial (1-15)

Prereq: Honors Tutorial College students only. (spring)
3rd-yr tutorial studies in physics.

Political Communication (POCO)

Undergraduate Certificate

The colleges of Arts and Sciences and Communication jointly sponsor a certificate in political communication for students who wish to supplement their undergraduate major with an inquiry into the arena of political communication. Political communication encompasses the interactions of political figures, political interests, the press, and the public in their efforts to persuade and influence political outcomes. The program is open to any undergraduate student in the University.

Program Requirements

To receive a certificate in political communication, a student must complete POCO 201, Introduction to Political Communication, and POCO 401, Seminar in Political Communication, as well as 22 quarter hours from among the courses listed below. No more than two courses from any one department can be counted toward the certificate.

A Political Communication Certificate is awarded upon completion of the requirements and graduation from the University. Notation of the award is recorded on the permanent record (transcript). Students pursuing the certificate must consult with the director of the Center for Political Communication prior to the deadline for graduation to ensure that the certificate will be awarded.

Required Courses:

POCO 201	Introduction to Political Communication	3
POCO 401	Seminar in Political Communication	5

Courses in the Curriculum:

ECON 316	Economics and the Law	4
ECON 430	Public Finance	4
INCO 250	Introduction to Rhetorical Theory	4
INCO 342	Communication and Persuasion	4
INCO 352	Political Rhetoric	4
INCO 430	Communication and the Campaign	5
INCO 442	Responsibilities and Freedom of Speech	4
JOUR 411	Communication Law	4
JOUR 412	Mass Media and Society	3
JOUR 464	Public Affairs Reporting	3
JOUR 471	Public Relations Reporting	5
LING 280	Language in America	5
LING 420S	Linguistics and Semiotics	4
PHIL 240	Social and Political Philosophy	4
PHIL 442	Philosophy of Law	5
POLS 250	International Relations	5
POLS 304	State Politics	4
POLS 405	American Political Parties	4
POLS 406	Elections and Campaigns	4

POLS 410	Public Policy Analysis	4
POLS 415	The American Presidency	4
POLS 417	Legislative Processes	5
POLS 418	Interest Groups	4
POLS 420	Women, Law, and Politics	4
POLS 424	Intergovernmental Politics	4
POLS 476A	American Political Thought	4
POLS 476B	American Political Thought	4
POLS 481	Modern Political Analysis	4
POLS 490B	Studies in American Public Opinion	4
PSY 304	Human Learning and Cognitive Processes	4
PSY 336	Social Psychology	4
SOC 412	Public Opinion Processes	4
SOC 413	Mass Communication	4
SOC 414	Contemporary Social Movements	4
SOC 432	Political Sociology	4
SOC 465	Social Change	4
TCOM 370	Mass Communication Theories	4
TCOM 371	Effects of Mass Communication	4
TCOM 453	Law and Regulation	4
TCOM 475	Politics and the Electronic Media	4

201 Introduction to Political Communication (3)

Overview of the realm of political communication, the interactions among political figures, political interests, the press, and the public. Against the background of the American political process, an investigation of those involved in that process, their relationships, and the role of mass and interpersonal communication in these relationships.

401 Seminar in Political Communication (5)

Prereq: 201 and completion of a min. of four courses from the above list, or perm. A senior-level research course investigating selected aspects of political communication.

Political Science (POLS)

The major requirement for the A.B. degree is a minimum of 45 hours including POLS 101 and either 102 or 103. Majors must also take at least one course at the 200 level or above in four of the following five areas: American politics, comparative politics, international relations, political theory, public administration. The distribution requirement for a minor in political science is the same as for the major, but the total number of hours required is 24.

American politics includes: 304, 306, 319, 320, 323, 374, 390, 401, 402, 404, 405, 406, 409, 415, 417, 418, 420, 476A, 476B, 479; international relations: 250, 351, 354, 427, 433, 452, 455, 456, 459, 463, 464; political theory: 270, 371, 372, 373, 374, 475, 476A, 476B, 477, 478, 479, 481, 482; public administration: 210, 314, 408, 410, 412, 413, 424, 425, 427, 429, 484, 486, 487.

101 American National Government (4) (2S)

Constitutional basis and development, political processes, and organization of American national government.

102 Issues in American Politics (4) (2S)

Concerned with administration and policy-making processes of national government in selected areas, e.g., welfare, civil rights, defense, etc.

103 The United States in World Affairs (4) (2S)

Introduction to major foreign policy problems confronting successive U.S. administrations in world affairs.

210 Principles of Public Administration (4) (25)

E. Baum, D. Burnier, M. Mumper. Introduction to role and operation of public agencies in American society. Examines organization of federal, state, and local bureaucratic systems, their interrelations, and their basic principles, functions, and tasks.

230 Comparative Politics (4) (25)

J. Barnes, G. Hawes, T. Suzuki. Introduction to dynamics, structures, and comparison of contemporary political systems and processes.

250 International Relations (4) (25)

R. Bald, S. Kim. Contemporary international system and major forces and conditions which affect current international politics. Special emphasis on role of conflict and need for peaceful conflict resolution.

270 Political Theory (4) (25)

F. Henderson. Introduction to study of political theory: examination of selected political issues and theorists from philosophical perspective. Emphasis on developing one's own political values and theories.

304 State Politics (4)

Prereq: 101, 102. *J. Tucker.* Comparative analysis of state political systems. Emphasis on structure and process of policy making of states within federal context.

305J Writing on Political Science Topics (4) (1J)

Prereq: 11 hrs POLS or perm. *J. Gilliom.* Writing course for political science majors and others. Focus is on studying and producing clear and persuasive writing about political problems.

306 Politics of Appalachia (5)

Prereq: 101 or perm. *J. Huntley.* Introduction to Appalachia, its political patterns, and political problems, such as politics of poverty and powerlessness. Includes examination of responses to these problems by various levels of government—national, regional, state, and local.

310 American Domestic Policy (4)

Prereq: 101, 102, or perm. *M. Mumper.* Major issues in American domestic policy are discussed from a variety of perspectives. The origin, development, and current structures of economic and social policy will be discussed. An analysis of these policies from a free market as well as a Marxist perspective will be provided.

319 Gay and Lesbian Politics (4)

Prereq: soph. *R. Hunt.* Exploration of emergence and ramifications of gay political activism in Western culture. Homosexuality is examined from vantage points of religion, psychology, law, and politics.

320 Urban Politics (4)

Prereq: 101, 102, or perm. *D. Burnier, L. Randolph.* Examination of role of values in urban politics focusing on their relationship to urban problems, structure and functions of municipalities, urban professionalism, and alternative urban arrangements.

323 Black Politics in the United States (4)

Prereq: 101 and 102 or perm. *L. Randolph.* Appraisal of economic and institutional structure of American society through social doctrines, enunciated by black political theorists, that serve as inspiration and ideology for black political movements. Examines sociopolitical societies in various parts of Africa and interprets black political movements in cultural, philosophical, ideological, and technological terms. Not open to those who have had AAS 323.

331 Politics in Western Europe (4) (25)

J. Barnes. Government and politics in several West European nations.

333 Politics in Russia and Former Soviet Union (4)

D. Williams. Introduction to political development, ideology, institutions, and contemporary politics of the former U.S.S.R.

340 The Politics of Developing Areas (4) (2T)

G. Hawes. Major theories and problems of political, socio-cultural, and economic development in new states of Asia, Africa, and Latin America, with special emphasis on heritage of colonialism, struggle for independence, and political adjustments to rapid social and technological change.

351 Current International Problems (4)

R. Bald, S. Kim. Selected case studies, crises, and issues illustrating major problems of contemporary international politics.

354 American Foreign Policy (4)

Prereq: 103 or perm. *K. Lambert.* Consideration of problems involved in formulation and execution of foreign policy. Particular emphasis on contemporary problems of American policy makers.

371 Plato, Aristotle, and Pre-modern Political Thought (5)

Prereq: not open to fr. *J. Huntley.* Major figures and basic concepts characteristic of political thought in ancient and medieval periods. Emphasis on original works of Plato, Aristotle, St. Augustine, St. Aquinas and on developing one's own political values and theories.

372 Modern Political Thought (5)

Prereq: not open to fr. *F. Henderson, R. Hunt.* Basic philosophic conceptions of modern nation state. Tracing original works, evolution of nation state traced through philosophical literature from its Renaissance origins. Attention focused on both formative and critical perspectives, such as those of Machiavelli, Rousseau, and Emma Goldman with emphasis upon evaluation of norms associated with modern state.

373 Contemporary Political Thought (5)

Prereq: not open to fr. *F. Henderson, R. Hunt.* 19th- and 20th-century political theory. Focus on such contemporary philosophical and political issues as emergence of European socialist tradition, origins of human aggression, and human alienation. Attention given to selected theorists such as Marx, Freud, Gandhi, M. Friedman, and M. Harrington.

374 Great Jurists (4)

Prereq: not open to fr. *F. Henderson.* Analysis of life, legal writings, and thought of prominent jurists such as Taney, Frankfurter, Harlan, Marshall, Douglas, and Learned Hand.

390 Political Workshop (10-15)

Prereq: 101 and perm. (fall, even years) *A. Priskey.* Intensive analysis of political organizations and campaigning combined with field experience in campaigning.

401 American Constitutional Law (4)

Prereq: 11 hrs POLS, including 101. *J. Gilliom.* Principles underlying American constitutional government. Consideration of leading cases with reference to interpretation of U.S. Constitution.

402 American Constitutional Law (4)

Prereq: 11 hrs POLS, including 101. *J. Gilliom.* Continuation of 401. See 401 for description.

404 Civil Liberties (4)

Prereq: 270 and 401 or 402. *F. Henderson.* Examination of selected civil liberties issues such as freedom of expression, human and political equality, rights of criminally accused, and rights of indigent.

405 American Political Parties (4)

Prereq: 11 hrs POLS. *A. Priskey.* Origin, growth, organization, and methods of parties; suffrage, nominations, and elections; role of parties in democracy.

406 Elections and Campaigns (4)

Prereq: 101. *K. Cosgrove.* Examines nature of voter and rationality of voter decisions; impact of campaigns and their influence on election outcomes; techniques used in political campaigns; and role of elections in American society.

408 Urban Public Administration (4)

Prereq: 320 or perm. *L. Randolph.* Examines administration of urban programs. Focuses on agency-client relationships, professionalism, and public delivery.

409 Criminal Procedure (5)

Prereq: 11 hrs POLS or perm. *T. Eslocker.* Role, function, and problems of American judicial, prosecutory, policing, and correctional systems in political process. Crime and law as functions of social and political systems. Examination of relationship of law and social change in industrialized, urbanized, and technical society.

410 Public Policy Analysis (4)

Prereq: 12 hrs POLS, including 102. *D. Burnier, M. Mumper, L. Randolph.* Analysis of policy process; formulation, implementation, and evaluation. Examines policy areas such as energy, health, economic development.

412 Public Personnel Administration (4)

Prereq: 11 hrs POLS. *E. Baum.* Philosophy, problems, and procedures of public personnel management: recruitment, training, promotion policies, position classification, and employer-employee relations.

413 Administrative Law (4)

Prereq: 11 hrs POLS. Organization, functions, and procedures of selected national regulatory agencies; principles affecting administrative discretion, administrative power over private rights, enforcement, and judicial control of administrative decisions.

414 Organizational Theory and Politics (4)

Prereq: 210. *D. Burnier, M. Weinberg.* Examination of public organizations. Presents major theories of organizations in public administration. Public management cases examined to illustrate major theories.

415 The American Presidency (4)

Prereq: 11 hrs POLS. *M. Mumper.* Analysis of office of national chief executive and its place in American political system. Attention given to constitutional status and powers, functional development, and interrelationship of person and office.

417 Legislative Processes (5)

Prereq: 11 hrs POLS. *K. Cosgrove.* Explores legislative process and policy, primarily at national level. Examines influence of interest groups, constituencies, political parties, executive branch, and organizational structure of Congress on legislative outcomes.

418 Interest Groups in American Politics (4)

Prereq: 11 hrs POLS. *D. Burnier.* Organization and tactics of pressure groups and their impact on policy-making process.

420 Women, Law, and Politics (4)

Prereq: jr or perm. *P. Richard.* Focuses on political and legal position of women in U.S. Covers women's legal status, feminist movement, current issues, and public policy responses concerning women's position such as Equal Rights Amendment, marriage and divorce laws, affirmative action, abortion, and pay equity.

424 Intergovernmental Relations in the U.S. (4)

Prereq: 210 or perm. *D. Burnier.* Examines intergovernmental fiscal patterns between federal-state-local governments and impact of fiscal transfers on local budgeting and finance administration. Includes analysis of nonfiscal patterns such as federal program requirements, their impact on local administrative processes, and other pressures on local budgeting and finance.

425 Environmental and Natural Resource Politics and Policy (4)

N. Manning. An in-depth examination of major environmental and natural resource problems facing policy makers and society today and the politics of addressing these problems. Topics covered include air and water pollution, energy development, and land use.

427 Formulation of American Foreign Policy (4)

Prereq: 103 or 354 or perm. *K. Lambert.* Covers institutional and administrative as well as political and more informal processes whereby foreign policy decisions are formulated and implemented in U.S.

429 Comparative Public Administration (4)

Prereq: 210 or 230 or perm. *E. Baum, D. Williams.* Examines and compares characteristics of public administrative systems in various national political settings.

432 Policy Making in Russia (4)

Prereq: 210 or 230 or perm. *T. Eslocker.* Role, function, and problems of American judicial, prosecutory, policing, and correctional systems in political process. Crime and law as functions of social and political systems. Examination of relationship of law and social change in industrialized, urbanized, and technical society.

433 Russian Foreign Policy (4)

Prereq: 11 hrs POLS, including 333 or perm. *D. Williams.* Analysis of foreign policies of the former U.S.S.R. Historical, ideological, strategic, and other influences covered.

434 Government and Politics of Latin America (4)

Prereq: jr or sr. *T. Walker*. Political systems of Latin America. Emphasis on power relationships and political obstacles to change in contemporary Latin America.

435 Revolution in Latin America (4)

Prereq: jr or sr. *T. Walker*. Revolution as theoretical concept and as practical reality in several Latin American countries. Special emphasis on Cuban and Nicaraguan revolutions.

438 Government and Politics of Germany (4)

Prereq: 11 hrs POLS or perm. *R. Bald*. Major political processes, personalities, and institutions of contemporary West Germany, including key foreign policy issues.

439 Politics in France (4)

Prereq: 11 hrs POLS or perm. *J. Barnes*. Major political processes, personalities, ideas, and institutions of modern France.

441 Government and Politics of Africa (4)

Prereq: 8 hrs POLS or history. Development and structure of modern African states with emphasis on political processes in tropical Africa.

445 Government and Politics of Japan (4)

Prereq: 11 hrs POLS or Asian history. *T. Suzuki*. Political institutions and processes of Japan with emphasis on developments since 1945.

446 Government and Politics of China (4)

Prereq: 11 hrs POLS or Asian history. *T. Suzuki*. Political institutions and processes and major political developments in modern China.

447A Government and Politics of Southeast Asia (4)

Prereq: 11 hrs POLS or history. *G. Hawes*. Introduction to the political institutions and processes of contemporary Southeast Asia.

447B Government and Politics of Southeast Asia (4)

Prereq: 11 hrs POLS or history. *G. Hawes*. Continuation of 447A but can be taken independently. More in-depth study of politics in selected countries of Southeast Asia.

450H Honors in Political Science (5, max 20)

Prereq: acceptance in departmental honors program. Seminar on selected aspects of political science and approaches to study of politics to be followed by research for honors thesis.

452 Advanced International Relations (4)

Prereq: 250 or perm. *S. Kim*. In-depth analysis of various aspects of international relations including major theoretical approaches to study of international relations.

455 International Law (4)

Prereq: 250 or perm. *S. Kim*. Role of international law in interstate relations and international organization.

456 International Organizations (4)

Prereq: 250. *S. Kim*. Analysis of nature, development, structure, and functions of international organizations with particular emphasis on United Nations.

459 Arms Control and Disarmament (4)

Prereq: 11 hrs POLS or perm. *R. Bald*. Examines military force in nuclear age with special emphasis on strategy of nuclear deterrence, history of disarmament negotiations since WWII, arms control agreements, and case studies in current U.S.-Russian arms control negotiations.

463 The United States and Africa (5)

Prereq: 103 or 250 or 354. *E. Baum*. Origins and nature of American relations with African states, with emphasis on current American interests and policy.

464 Africa and the OAU (3)

Coreq: POLS 464W. *E. Baum*. Examination of the relationship between African states and the Organization of African Unity. Includes foreign policies of selected African states and consideration of current issues in Africa. Includes participation in the annual Inter-University Simulation of the OAU.

464W Simulation Portion of POLS 464 (2)

Coreq: POLS 464.

475 Studies in Political Thought (5)

Prereq: 1 course in political thought or perm. *F. Henderson*, *R. Hunt*. Selected topics in political theory; e.g., anarchism, socialism, democratic theory, technology and politics, etc. Consult department for information pertaining to current course description and schedule.

476A American Political Thought (4)

Prereq: 11 hrs POLS or history. *A. Prusley*. Origin and development of political ideas from colonial period through slave controversy.

476B American Political Thought (4)

Prereq: 11 hrs POLS or history. *A. Prusley*. Continuation of 476A but can be taken independently. Begins with Social Darwinism and concludes with contemporary political ideas in America.

477 Legal Theory and Social Problems (4)

Prereq: 12 hrs POLS or perm. *F. Henderson*. Examination of legal reasoning and normative values of judges, lawyers, legal theorists, and administrative agencies in shaping legal solutions to contemporary social problems. Emphasis on developing one's own political, legal, and philosophical values.

478 Feminist Political Theories and Movements (5)

Prereq: jr or perm. *J. Huntley*. Explores issues of power, powerlessness, oppression, and transcending oppression. Views feminism as human rights movement. Topics: origins and history of sexism and feminism, classic treatises of feminist political theory, contemporary theories from conservative to anarchist, visions of post-sexist futures, movement strategies and tactics, practical applications.

479 Latin American Political Thought (4)

Prereq: 11 hrs POLS. *T. Walker*. Evolution of Latin American political thought from conquest to present. Major emphasis on 20th-century movements such as Democratic Left, Progressive Catholic Left, and Marxist Revolutionary Left.

481 Modern Political Analysis (4)

Prereq: 20 hrs POLS or perm. *D. Dabelko*. Examination of problems of knowledge in social sciences with particular emphasis on political science. Analysis of major theories or approaches developed in political science recently.

482 Quantitative Political Analysis (5)

Prereq: 481 or perm. *D. Dabelko*. Designed to show relevance of scientific research techniques to study of politics.

483 Statistical Package for the Social Sciences (4)

Prereq: PSY 121 or POLS 482 or equiv. *D. Dabelko*. Designed to introduce social science students, with some statistical background, to the use of the microcomputer for data analysis. Although the focus is the structure and syntax of SPSS/PC, fundamental data analysis problems will be discussed in the context of computer applications.

484 Management Skills for Public Administration (5)

Prereq: jr. *E. Baum*. Practicum designed to introduce students to several management skills needed for success in public administration and to permit them to apply these skills in a classroom setting.

486 Public Budgeting (4)

Prereq: 210 or 411 or perm. *M. Weinberg*. Examines politics, techniques, and consequences of public budgeting processes at federal, state, and local levels.

487 Financial Management in Government (4)

Prereq: 210, 411 or equiv or perm. *M. Weinberg*. Examines financial aspects of state and local governments. Financial conditions of these governments discussed in conjunction with various actions governments take to deal with them.

490 Studies in Political Science (3-5)

Prereq: 11 hrs POLS or perm. Intensive study of special topics in field of political science, including American government and politics, comparative government, international relations, political theory, and public administration.

492A-E Research in Political Science (1-5)

Prereq: 18 hrs POLS, perm, max 20 hrs in 492ABCDE. Research in selected subfields of political science; international relations, American politics, comparative government, public administration, political theory. See quarterly schedule of classes for registration information.

494A-Z Workshops in Selected Topics (1)

Prereq: perm only. Workshop in selected topics.

495 Public Affairs Internship (1-15)

Prereq: jr or above, POLS major, or perm. *D. Dabelko*. Provides qualified students with opportunity to learn through working in selected public and private agencies.

Psychology (PSY)**(Major code #BA4101)**

The Department of Psychology offers both a major and a minor program. The major requirement for the A.B. degree in psychology consists of a minimum of 50 quarter hours and a maximum of 72 hours. All majors are required to take one course in general psychology (101), one course in statistics (121), and one course in experimental methods (226). In addition, majors are required to take courses in each of the following five areas:

A Biological—at least one of the following: 201, 203, 312, 314, 327, 490*

B Cognitive—at least one of the following: 304, 305, 307, 308, 490*

C Developmental—at least two of the following: 273, 275, 315, 374, 376, 378, 470, 490*

D Clinical—at least two of the following: 233, 332, 341, 351, 380, 430, 490*

E Social-Organizational—at least two of the following: 261, 310, 335, 336, 337, 361, 362, 490*

At least four courses must be completed at the 300 level or above. Students who plan to attend graduate school in psychology should include the following in their course selections: 233, 273, 312, 304, 321, 332, 336, and 418.

In addition to the above psychology courses, all psychology majors must take certain science and math or computer science courses.

Undergraduate majors in psychology must take a three-course sequence in one of seven natural science areas as outlined below. These courses were chosen to provide a basic foundation in at least one science area, while allowing flexibility in the choice of area. All of these courses also count as natural sciences options for Arts and Sciences' area requirements.

Anthropology: 201, 492, and 496.

Biological Sciences: 170, 171, and either 225 or 275 or Microbiology 211 or any 300-level BIOS course

or 101, 103, and either 225 or 275 or Microbiology 211 or any 300-level BIOS course

or 103, 225, and either 275 or Microbiology 211 or any 300-level BIOS course.

Chemistry: 121, 122, and 123 or 151, 152, and 153.

Environ. and Plant Biology:

101, and either 220, 225, 247, or 248, and any 300-level course or 110, 111, and any 300-level course.

Geography: 101, 302, and 303.

Geology: 101, 211, and 215, or 221.

Physics: 201, 202, and 213.

Undergraduate majors in psychology must take two courses in either math or computer science as outlined below. These courses were chosen to ensure that majors have at least a basic literacy in math or computer science. Both the math and computer science courses allow students to choose from a wide range of levels. Three of the courses (MATH 113, 115, and CS 220) do not count as natural sciences options for Arts and Sciences' area requirements.

Math:

113, 115, 163A, 163B, 211, 250A, 250B, 263A, 263B, 263C, or 263D.

Computer Science:

Any course numbered 200 or above.

The minor in psychology consists of a minimum of 28 hours, with at least two courses at the 300 level or above. PSY 101 and 121 are required. In addition, at least one course is required in four of the following five areas:

A Biological: 201, 203, 312, 314, 327, 490*.

B Cognitive: 304, 305, 307, 308, 490*.

C Developmental: 273, 275, 315, 374, 376, 378, 470, 490*.

D Clinical: 233, 332, 341, 351, 380, 430, 490*.

E Social-Organizational: 261, 310, 335, 336, 337, 361, 362, 490*.

In addition to the regular major, a psychology-prephysical therapy major also is available. Required courses are listed under Preparation for Physical Therapy in the Arts and Sciences' Special Curricula section of this catalog.

For qualified students, the department offers both a departmental honors program and an honors tutorial program. General descriptions of these two programs may be found in the Honors Tutorial-College section of this catalog. A detailed description of the psychology honors program is available from the Department of Psychology. Students should apply to the assistant chair for undergraduate affairs for admission to departmental honors. A detailed description of the psychology honors tutorial program is available from either the department or the Honors Tutorial College. Students should apply to the Honors Tutorial College for admission to the psychology tutorial program.

Requirements for all psychology programs are structured to provide students with exposure to several areas of psychology, while providing latitude in selecting courses to fit students' needs and interests. Students are encouraged to consult their academic advisors early in their programs to plan appropriate course selections. Early consultation with an advisor is particularly recommended for students who are considering graduate work in psychology.

At the graduate level, the department offers doctoral programs in clinical, experimental, and industrial-organizational psychology and a master's program in experimental psychology. Students who are interested in pursuing a graduate degree in the department may receive a brochure and additional information about the graduate programs from the assistant chair for graduate affairs.

*490 seminars that apply to these area requirements are approved by the assistant chair for undergraduate affairs when the seminar is offered. Some 490s do not apply to any area.

Note: All students are required to obtain experience with the methodology of psychological research through participation in psychology experiments or through the completion of an equivalent option. According to ethical guidelines, individuals may withdraw, without penalty, at any time from an experiment in which they are participating.

101 General Psychology (5) (25)

Introduction to psychology. Survey of topics in experimental and clinical psychology including physiological bases of behavior, sensation, perception, learning, memory, human development, social processes, personality, and abnormal behavior.

121 Elementary Statistics for the Behavioral Sciences(5) (1M)

Prereq: Tier math placement or MATH 101. Measures of central tendency, variability, correlation; sampling distributions and statistical inference; simple tests of hypotheses. No credit awarded if QBA 201 has been taken.

190 Workshops in Applied Psychology (1-2, max 5)

Workshops on specific topics in applied psychology, offered yearly, carrying predetermined alphabetical designations (e.g., 190A). Students seeking academic credit must complete satisfactorily written project determined by instructor. Graded credit/no credit.

201 Sensation and Perception (4)

Prereq: 101. Sensory and perceptual processes in vision, audition, somesthesia, gustation, olfaction, and kinesthesia. Theory and research on perceptual phenomena with an emphasis on visual and auditory modalities, including perception of objects, space, and events; effects of person variables on perception; perceptual development.

203 Learning (4)

Prereq: 101 and 121. Experimental investigation of classical and instrumental conditioning, discrimination learning, generalization, related phenomena.

226 Experimental Psychology (4)

Prereq: 101 and 121. Training in scientific methods and techniques of modern experimental psychology with individual reports of experiments.

231 Psychology of Adjustment (4)

Prereq: 101. Dynamics, development, and problems of human adjustment. Does not count toward meeting departmental major or minor requirements except hours.

233 Psychology of Personality (4)

Prereq: 101. Development and organization of personality, with evaluation of major theoretical viewpoints; research on personality structure, dynamics, and change. No credit awarded if PSY 334J has been taken.

261 Survey of Industrial and Organizational Psychology (4)

Prereq: 101 and 121 or QBA 201. Survey of industrial and organizational psychology; emphasis on application of psychological theories and research to organizational situation.

273 Child and Adolescent Psychology (4)

Prereq: 101. Behavior from infancy through adolescence. No credit awarded if HCCF 160 or EDEL 200 has been taken.

275 Educational Psychology (4)

Prereq: 101. Applications of psychological theories and models to educational settings (emphasis on schools). Major topics include goals of education; cognitive, social, and affective development in children; cognitive and behavioral models of learning; motivation; individual differences; effects of social class, ethnicity, gender, and cultural deprivation on learning and development; tests and evaluation. Emphasis is on the role of teachers and parents as facilitators of learning and development. No credit awarded if EDCI 275 has been taken.

304 Human Learning and Cognitive Processes (4)

Prereq: 12 hrs PSY including 101 and 121. Theoretical and experimental investigations of learning in human beings: concept learning, problem solving, memory, motor skills, and language.

305 Human Memory (4)

Prereq: 12 hrs PSY including 101 and 226. Structure and processes of human memory, including historical models of memory, contemporary theories of memory, techniques used in memory experimentation, memory stores, memory codes, mnemonic devices, memory failures, neurological basis of memory and memory failures, and computer models of memory.

307 Psycholinguistics (4)

Prereq: 9 hrs PSY including 101 or perm. How people produce, understand, and acquire language; psychological and linguistic theories. Emphasis on use of language.

308 Human Judgment and Decision Making (4)

Prereq: 12 hrs PSY including 101 and 121. Descriptive and prescriptive models of human judgment and decision making. Topics include how people understand uncertainty, and how they learn the relationships that enable them to make predictions, make decisions when the outcomes of these decisions are uncertain, and perceive risks. No credit awarded if MGT 430 has been taken.

310 Motivation (4)

Prereq: 12 hrs PSY including 101. Survey of theories of motivation, with emphasis on human motivation.

312 Physiological Psychology (4)

Prereq: 101, recommend 1 BIOS course. Physiological mechanisms involved in perception, movement, motivation, learning, emotions, and mental disorders. Anatomy, physiology, and chemical activities of cells in the nervous and endocrine systems. Research approaches for studying interactions between physiology and behavior.

314 Comparative Psychology (5)

Prereq: 9 hrs PSY including 101. Behavior of animals across phylo-genetic scale. Interaction of genetics, hormones, learning, etc., in development of behavior. Lecture, lab, field trips, and naturalistic movies.

315 Behavior Genetics and Individual Differences (5)

Prereq: 9 hrs PSY including 101. Extensive survey of individual differences and their relationship to genetic factors. Topics include chromosomal abnormalities, inborn errors of metabolism, genetic and prenatal screening, behaviors in infants, genetics and intellectual differences, psychopathology and genetics, racial differences, and continuing evolution of behavior.

321 Experimental Design and Analysis (5)

Prereq: 101 and 121 or perm (226 recommended). Continuation of 121 statistical techniques through multifactor analysis of variance and post-tests. Integration of experimental design with statistical analysis. Does not apply to Arts and Sciences social sciences or natural sciences requirement.

327 Human Psychophysiology (4)

Prereq: 101 and 121 and perm (226 recommended). Relationships between psychological variables and physiological events in humans. Measures of cardiovascular, electrodermal, muscle, respiratory, and central nervous system activity; recording techniques; research findings; and applications such as biofeedback and lie detection.

332 Abnormal Psychology (4)

Prereq: 9 hrs PSY including 101. Behavior disorders, their cause and effects on person, family, and society.

335 Environmental Psychology (5)

Prereq: 9 hrs PSY, including 101. Natural and built environments of everyday as factors of human behavior, cognition, and choice. Research concerning environmental design and evaluation from psychological standpoint emphasized.

336 Social Psychology (4)

Prereq: 101 and 121. Theory and research on the ways that people think about, influence, and relate to one another. Specific topics include attitudes and behavior, social perception and cognition, conformity, persuasion, group influence, aggression, attraction, and helping behavior.

337 Social Psychology of Justice (4)

Prereq: 9 hrs PSY including 101 (336 recommended). Theory and research on the interface of psychology and the legal system (with an emphasis on social psychology). Specific topics include dilemmas faced by psychologists in the legal system; legality vs. morality; the socialization, training, and ethics of lawyers and police; perception memory and error in eyewitness testimony; hypnosis; lie detection and confessions; rights of victims and accused; rape and rapists; arrest and trial; jury selection; jury dynamics and deliberations; insanity and the prediction of dangerousness; sentencing; death penalty; rights of special groups; theories of crime.

341 Tests and Measurements (4)

Prereq: 12 hrs PSY including 101 and 121. Tests, psychophysical methods, scaling techniques, and questionnaires. Basic criteria including reliability, homogeneity, and validity.

351 Introduction to Clinical and Counseling Psychology (4)

Prereq: 12 hrs PSY including 233 or 332. Diagnostic and remedial procedures and resources; professional problems, duties, skills, and interprofessional relationships.

361 Advanced Organizational Psychology (4)

Prereq: 261. Study of behavior in organizations with emphasis on applying psychological research and principles to understanding structure and process of (primarily work) organizations.

362 Personnel Psychology (4)

Prereq: 261. In-depth coverage of topics in personnel psychology, including job analysis, organizational entry and training and evaluation of personnel.

374 Psychology of Adulthood and Aging (4)

Prereq: 9 hrs PSY including 101 or perm (273 recommended). Behavioral change and continuity over adult years through old age. Emphasis on interaction of psychological, sociocultural, and biological variables as they contribute to behaviors of aging individual from perspective of developmental framework.

376 Psychological Disorders of Childhood (4)

Prereq: 101 and 273 or HCCF 160 or EDEL 200. Characteristics, etiology, and treatment of abnormal child behavior: developmental anxiety, depressive eating, hyperactivity, conduct, and psychophysiological disorders.

378 Psychology of Gender (4)

Prereq: 2 hrs PSY including 101. Sex differences in physical characteristics, abilities, personality, and social behavior; development of sex roles; sex roles across the life span; relationships of sex, gender, and sex roles to interpersonal functioning, work and psychological disorders.

380 Psychology of Health and Illness (4)

Prereq: 12 hrs PSY including 101. Theory and research on the psychological aspects of physical health and illness: interrelationships of behavior, emotion, stress, lifestyle, and illness; psychological factors in disorders such as hypertension, coronary artery disease, headache, asthma, and immune disorders; applications and effectiveness of psychological interventions.

390 Research in Psychology (1-5, max 15)

Prereq: 226 and written perm. Supervised independent research on predefined problem. Graded credit/no credit.

418 History and Systems of Psychology (4)

Prereq: 20 hours PSY. Comparative, historical review of major conceptual orientations in psychology within last century. Includes analysis of important philosophy of science issues bearing on psychology, such as nature of theory, observation, explanation, and some specialized topics especially pertinent to psychology.

430 Psychoactive Drugs: Therapeutic Agents and Drugs of Abuse (4)

Prereq: 312 or 332 or 376 or BIOS 171. Patterns of use and abuse of psychoactive agents; behavioral and physiological effects of drugs; etiological factors in drug abuse; treatment of drug abuse; use of drugs in the treatment of mental disorders; comparative effectiveness and integration of pharmacological and psychological interventions; research methods and applications in conducting research.

470 Prenatal Influences on Development (4)

Prereq: PSY 101 or EDEL 200 or HCCF 160, and PSY 233 or 1 biology course. Prenatal and perinatal influences on development including the effects of nutrition, stress, drugs, maternal disorders, maternal mental health, and environmental factors.

489 Fieldwork in Psychology (1-5, max 5)

Prereq: written perm. Independent fieldwork as volunteer or employee in work directly related to psychology. Arrangements for course credit must be approved by psychology faculty member before fieldwork begins. Contact assistant chair for undergrad affairs or other faculty member to complete necessary forms. Graded credit/no credit.

490 Seminars in Psychology (3-5)

Prereq: dependent on seminar; perm required. Several seminars on specific topics in psychology offered yearly, carrying predetermined alphabetical designations (e.g., 490A). See *Schedule of Classes* for topics each qtr.

491 Special Problems in Psychology (1-15)

Prereq: written perm. Independent work on special problem with any psychology professor.

492 Special Problems—Psychology (1-15)

Prereq: Study Abroad Program, perm.

496H Psychology Honors Seminar (3-5)

Prereq: perm, admission to departmental honors program. Seminar on specific topics. See *Schedule of Classes* each qtr.

497H Readings in Honors Work (1-4, max 10)

Prereq: perm.

498H Honors Work in Psychology (1-4, max 10)

Prereq: perm. Preparation for 499H.

499H Honors Work in Psychology (Thesis) (3-7, max 15)

Prereq: perm.

Quantitative Business Analysis (QBA)

201 Introduction to Business Statistics (4)

Prereq: MATH 163A, MATH 250B. Sampling plans, Bayesian and classical statistical inference and decision making. Contingency table analysis, simple regression and correlation analysis, and non-parametric statistics. Computer analysis of data in an integral part of the course. (Note: 201 is a continuation of MATH 250B and should be taken as soon as possible after MATH 250B.)

314 Introduction to Management Science (4)

Prereq: 201 and OPN 310. (winter) Introductory survey of techniques of management sciences, viewed as part of applied decision theory. Applications in fields of accounting, production, finance, and marketing stressed. Course topics include inventory models, linear programming, network analysis, queuing models, simulation, dynamic programming, branch and bound methodology.

371 Statistical Analysis of Data (4)

Prereq: 201. (fall) Further topics in applied statistics. Design and analysis of survey samples. Analysis of variance. Modern decision analysis. Time series analysis (Classical decomposition, projective forecasting procedures).

430 Statistical Quality Control (4)*

Prereq: 201. Application of sampling theory to quality control: in process control (i.e., control charts) and sampling inspection (i.e., attribute and variable). Other statistical techniques that suggest total quality management (TQM) initiative in organizations.

434 Design of Experiments (4)*

Prereq: 201 or perm. Nested, split plot, replicated designs, multi-factor experiments, compounding, fractional factorials, analysis of covariance.

438 Nonparametric Statistics (4)*

Prereq: 201 or perm. Appropriate statistical tests, power, asymptotic efficiency, parametric vs nonparametric. Fisher's randomization method, run test, mult sample test, 1-way ANOVA and two-way ANOVA, miscellaneous tests.

445 Forecasting Business Trends (4)

Prereq: 201 or perm. (fall) Forecasting techniques and methodologies considered as tools decision makers use to provide basis for determining nature of future environments in which business will have to operate. Forecasting is means for integrating total corporate planning with technical marketing and financial planning.

451 Statistical Survey Techniques (4)*

Prereq: 201 or equiv. Techniques of analysis and applications of various types of survey samples used in marketing, accounting, economics, and other areas within business and government.

454 Intermediate Probability Theory (4)

Prereq: 371, or equiv. (winter, odd years) Random variables—moment generating functions and expected multidimensional (continuous and discrete) values, limiting theorems.

455 Intermediate Statistical Inference (4)

Prereq: 454 or perm. (spring, odd years) Estimation, tests of hypothesis, sampling, analysis of variance, design of experiments.

456 Regression Analysis (4)*

Prereq: 371 or perm. Time series analysis, simple and multiple regression, and correlation analysis.

462 Bayesian Decision Analysis (4)

Prereq: 201. Statistical inference and decision making taught from a Bayesian point of view. Comparison made with classical approach where instructive.

485 Simulation (4)

Prereq: 314 and CS 220 or perm. (spring, even years) Development of models of complex management decision environments and their manipulation via computer simulation. Analysis and interpretation of simulation results. Applications to problems in marketing, finance, and production.

491 Seminar (4)

Prereq: perm. Selected topics of current interest in quantitative business analysis area.

497 Independent Research (1-4)

Prereq: perm. Research in selected fields of quantitative business analysis under direction of faculty member.

498 Internship (1-4)

Prereq: perm.

Radio-Television (RTV)

Electronic Media Associate Degree Program

The following R-TV courses are available only at the Zanesville and Southern (Ironton) campuses for the A.A.S. in radio-television. In addition, the following courses offered on the Zanesville and Southern (Ironton) campuses count toward the A.A.S. degree as well as the four-year telecommunications degree: TCOM 170, 200A, 206, 308; JOUR 351.

101 Introduction to Electronic Media (3)

(fall) Overview of R-TV field, facilities, student responsibilities, and career expectations.

122 Radio-Television Performance (4)

(spring) To provide overview of responsibilities required for radio and television announcing, and to provide practice and performance situations necessary to develop proficiency in performance skills.

211 Audio Production-Direction (4)

(winter) Principles of basic radio production and development of criteria for evaluation of radio production. 2 lec, 4 lab.

214 Advanced Audio Production/Performance (2)

Prereq: 211. (fall, spring, may be repeated 2 qtrs) Innovative techniques for production and performance of audio materials. Investigation and analysis of audio production development, and individual problems.

216 Introduction to Video Production (4)
(spring) Principles of basic television production and development of criteria for evaluation of television production. 2 lec, 4 lab.

217 Advanced Video Production (2)
Prereq: 216. (winter, spring; may be repeated 2 qtrs) Applications of studio and field production with emphasis on innovative techniques.

257 Advertising in the Broadcast and Cable Media (4)
Prereq: 106. (winter) Introduction to principles and practices of advertising and selling of time in electronic media situations. Format includes substantial instruction and interaction with individuals employed in station sales departments, and preparation of materials for sales strategies and campaigns.

289 Broadcast Workshop (1)
Prereq: R-TV major. (fall, winter, spring) Production of technically related assignments monitored and supervised within broadcast related services of OU-Zanesville. Requires minimum number of assigned hrs of tasks per wk during school terms. (May be repeated up to 6 qtrs.)

290 Radio-Television Internship (1)
Prereq: R-TV major. Approved assignments in area radio, TV, cable, or media production facilities. Requires contract of duties and time commitment between R-TV coordinator, student, and employee. Written evaluation required for course completion.

298 Independent Study (1-4)
Prereq: R-TV major, written proposal, and perm. Research projects requiring self-directed study and completion of paper or production relating to electronic media. (May be repeated up to 4 qtrs.)

Real Estate Technology (REAL)

Real estate courses are available on the Athens campus through Lifelong Learning Programs and at the regional campuses through Continuing Education Offices. An Associate of Applied Business (A.A.B.) in business management technology with a real estate option is available at the Chillicothe campus.

101 Real Estate Principles and Practices I (4)
Real property is basic resource with which real estate professionals work. Course includes, but is not limited to, land and its description, rights and interests in real estate, contract law and real estate contracts, title transfer, deeds, leases, financing and mortgages, taxes, home ownership, urban planning, brokerage operations, appraisal and value, applied real estate math, and Ohio requirements for real estate licenses.

102 Real Estate Brokerage (4)
Prereq: 101 or perm. Expands on 101 and includes specialized fields of real estate, principal-agent relationship, listing principles and practices, closing principles and practices, sales contract, principles of economics and real estate appraising, property insurance, real estate finance, federal laws regulating real estate practice, mathematics in real estate, and other facets of real estate needed by real estate professional; Ohio licensing laws and requirements.

103 Real Estate Law (4)
Prereq: 101. Includes all legal areas commonly concerned with typical real estate professional. Among topics covered are law of agency as applied to real estate brokers and sales personnel, law of fixtures, estates, conveyancing of real estate, mortgages and liens, license laws of Ohio, and zoning.

201 Real Estate Appraising I (4)
Deals with appraisal theory, basic principles affecting value of real property; data accumulation and analysis of city, neighborhood, site, and property; applied techniques and estimating value from 3 approaches; building analysis, depreciation; entire range of appraisal process; and preparation based on field experience of preparing single-family residential appraisal report.

204 Real Estate Finance (4)
Prereq: 101. Includes institutions, methods, instruments, and procedures involved in financing of real estate; nature and characteristics of mortgage loans, government influence on real estate finance, and nature of mortgage market. Effects of monetary and fiscal policies on real estate financing considered.

221 Real Estate—Special Topics (4)
Prereq: 204. Special topics in real estate covered. Areas include professionalism, ethics, salesmanship, human relations, F.H.A. and V.A. financing. Real estate office, advertising, building construction and materials, current issues, and problems facing real estate professional also considered.

Recreation and Sport Sciences

Athletic Training (HSAT)

128 Introduction to Athletic Training (2)
Introduction to prevention and care of athletic injuries. 2 lec.

129 Principles of Athletic Training (3)
Prereq: 129. (winter) Introduction of practical athletic training skills with emphasis on preventive and protective injuries. 2 lec, 1 lab.

131 Practical Aspects of Athletic Training (2)
Prereq: 129. (winter) Introduction of practical athletic training skills with emphasis on preventive and protective injuries. 2 lec, 1 lab.

326 Recognition/Evaluation of Athletic Injuries (4)
Prereq: 129, BIOS 301 or 302, or perm. (spring) Advanced techniques in management and recognition of athletic injuries. 4 lec.

327 Prevention/Management of Athletic Injuries (3)
Prereq: 129. (winter) Continuation of 326. Advanced techniques in prevention and management of athletic injuries and illnesses. 3 lec.

335 Therapeutic Modalities (5)
Prereq: PHYS 201, 202 or perm. (spring) Principles and practical skills associated with therapeutic modalities used in the treatment and rehabilitation of athletic injuries. 4 lec, 2 lab.

345 Emergency Care of Athletic Injuries (3)
Prereq: 129; HLTH 227, 228; BIOS 301 or 302. (spring) Advanced course in emergency care designed for, but not limited to, athletic training majors. Hands-on experience allows the realization of proper emergency care. Experiences reinforced with comprehension of related policies and procedures, as well as their application. 2 lec, 2 lab.

350 Independent Study (4-5)
Prereq: jr, perm. Selected individual case studies utilizing techniques and theories in rehabilitation of athletic injuries. Additional one-hour credit for oral presentation of written analysis. Case studies completed under direction of athletic training faculty.

360 Therapeutic Exercise (5)
Prereq: 129, perm. (winter) Concepts and practices associated with the conditioning and reconditioning (rehabilitation) of athletic injuries. 4 lec, 2 lab.

418A Instructional Experiences (1-15)
Prereq: perm. Supervised practice in organizing and teaching activities in college and recreational settings.

420 Administration of Athletic Training (3)
Prereq: major, sr. (spring) Introduction to processes necessary for implementation, maintenance, and administration of athletic training programs. 3 lec.

Coeducational Activities (HSC)

These courses are for students wishing to gain competency in an activity. Courses are offered on a pass/fail basis. NOTE: While no limit overall has been set for repeats of HSC, HSM, and HSW courses, individual majors, schools/departments, and/or colleges may limit the number of such hours that will count toward graduation.

105	Boating		1
106	Bowling	Fee: \$20	1
107	Conditioning and Weight Training		1
108	Golf		1
109	Intermediate Golf	Fee: \$25	1
110	Advanced Golf	Fee: \$25	1
113	Karate		1
114	Intermediate Karate		1
115	Life Saving	Fee: \$25	1
116	Beginning Tennis		1
117	Intermediate Tennis		1
118	Advanced Tennis		1
119	Volleyball		1
120	Intermediate Volleyball		1
121	Social Dance		1
124	Belly Dance		1
125	Intermediate Belly Dance		1
126	Advanced Belly Dance		1
128	Beginning Water Skiing	Fee: \$50	1
129	Advanced Water Skiing	Fee: \$50	1
130	Competitive Water Skiing	Fee: \$50	1
131	Co-Educational Softball		1
132	Field Sports		1
133	Adapted Physical Education		1
134	Aerobic Conditioning		1
135	Aerobic Dance		1
136	Jogging		1
137	Tae Kwon Do		1
139	Physical Conditioning I		1
140	Physical Conditioning II		1
141	Physical Conditioning III		1
142	Assault Prevention Women		1
143	Advanced Assault Prevention Women		1
144	Intermediate Racquetball		1
145	Beginning Swimming	Fee: \$25	1
146	Advanced Beginning Swimming	Fee: \$25	1
147	Intermediate Swimming	Fee: \$25	1
148	Advanced Swimming	Fee: \$25	1
149	Beginning Diving	Fee: \$25	1
150	Intermediate Diving	Fee: \$25	1
151	Aqua Aerobics	Fee: \$25	1
152	Swim Workouts	Fee: \$25	1
153	Synchronized Swimming	Fee: \$25	1
154	Intermediate Synchronized Swimming	Fee: \$25	1
155	Water Polo	Fee: \$25	1
156	Scuba	Fee: \$25	1
157	Intermediate Tae Kwon Do		1
159	Circuit Fitness		1

Note: There is a \$10 per quarter skate rental fee for students in courses 160-167 who do not own their own equipment.

160	Beginning Skating	Fee: \$25	1
161	Intermediate Skating	Fee: \$25	1
162	Figure Skating	Fee: \$25	1
163	Advanced Figure Skating	Fee: \$25	1
164	Power Skating	Fee: \$25	1
165	Speed Skating	Fee: \$25	1
166	Precision Skating	Fee: \$25	1
167	Hockey	Fee: \$25	1
170	Beginning Horseback Riding—Western I	Fee: \$160	1
171	Beginning Horseback Riding—Western II	Fee: \$160	1
172	Intermediate Horseback Riding—Western I	Fee: \$160	1
173	Intermediate Horseback Riding—Western II	Fee: \$160	1
174	Beginning Hunt Seat I	Fee: \$160	1
175	Beginning Hunt Seat II	Fee: \$160	1
176	Intermediate Hunt Seat I	Fee: \$160	1
177	Intermediate Hunt Seat II	Fee: \$160	1
178	Beginning Horseback Jumping	Fee: \$160	1
179	Intermediate Horseback Jumping	Fee: \$160	1
180	Trail Riding	Fee: \$160	1

Men's Activities (HSM)

These courses are for students wishing to gain competency in an activity. Courses are offered on a pass/fail basis. NOTE: While no limit overall has been set for repeats of HSC, HSM, and HSW courses, individual majors, schools/departments, and/or colleges may limit the number of such hours that will count toward graduation.

101	Basketball		1
102	Conditioning and Weight Training		1
104	Gymnastics		1
105	Handball		1
107	Swimming	Fee: \$25	1
108	Intermediate Swimming	Fee: \$25	1
109	Ice Hockey Fundamentals	Fee: \$8	1
110	Lacrosse		1
111	Softball		1
112	Racquetball		1
113	Intermediate Handball		1
115	Intermediate Racquetball		1
116	Broomball	Fee: \$25	1

Physical Education and Sport Sciences (HPES)

103 Beginning Swimming (2)

(fall) Basic swimming skills for nonswimmers. (Fee: \$37.00) 4 lab.

104 Intermediate Swimming (2)

Prereq: 103 or equiv. Instruction in basic strokes and related aquatic skills at intermediate and advanced level. (Fee: \$37.00) 4 lab.

105 Conditioning for Activity and Organic Efficiency (2)

Prereq: physical education major, minor or perm. To increase fitness level and knowledge competency of students majoring in physical education. 1 lec, 2 lab.

106 Introduction to Human Movement (2)

Prereq: physical education major. (fall, winter) Introduces student to discipline of human movement and to profession of teaching within discipline. Students begin to develop movement analysis techniques, and learn fundamental of self and other analyses in movement. 1 lec, 2 lab.

107 Modern Dance I (2)

Prereq: major-minor. (spring) Basic principles of dance technique. Movement progressions involving relationships of time, space, and dynamics. 4 lab.

108 Modern Dance II (2)

Prereq: 107 or equiv. (arranged) Complex movement progressions, and experimentation in composition. 4 lab.

109 Synchronized Swimming (2)

Prereq: 104, intermediate swimming skill or perm. (winter, spring) Focuses on basic principles of 104. Development of simple stunts, sculling, and modified strokes; experimentation in group and individual composition. (Fee: \$37.00) 4 lab.

110 Aqua Aerobics (2)

Prereq: sport sciences major or perm. Designed to help students develop knowledge, skills, and positive attitudes concerning fitness through aquatic exercises. Covers various forms of aquatic exercise, program components, and lap swimming. (Fee: \$37.00) 4 lab.

115 Rhythmics (2)

Prereq: physical education major or minor. Practical approach to rhythm fundamentals through various dance forms.

116 Social Forms of Dance (2)

Prereq: 115 or perm. (winter) Intermediate skills in ballroom, folk, round, mixers, couple, and contra dance.

117 Folk and Square Dance (2)

Prereq: 115 or perm. (fall) Introduces folk and square dance skills, and allows students majoring in physical education to develop competency in this area of dance. 4 lab.

120 Assault Prevention for Women (2)

Provides knowledge of nature of assault and rape and offers practical and effective skills regarding personal self defense and safety for women. 1 lec, 2 lab.

134 Introductory Field Experience in Physical Education (2)

Designed to assist in career decisions. Seminar component prepares for field experience and practicum component aids in career decision making. 1 lec, 2 lab.

141A Archery (1)

Prereq: major-minor or perm. (spring) Increases archery skill and knowledge competency of students majoring in physical education. 2 lab.

141B Golf (1)

Prereq: major-minor or perm. (spring) Increases golf skill and knowledge competency of students majoring in physical education. 2 lab.

212 Introduction to Coaching (3)

Prereq: soph (fall, spring) Introduction to high school interscholastic athletics including history, structures, job opportunity, and contemporary programs. 3 lec.

213 Youth and Sports (3)

(winter) Covers opportunities, controversies, organizations, safety, values, rules, leadership, benefits, and settings of youth sports programs. 3 lec.

215 Practicum in Athletics (2)

Prereq: 212 or perm. Supervised field experience designed to involve student in coaching/administrative setting. 4 lab.

218 Life Guard Training (2)

Prereq: HLTH 227 (First Aid) and 228 (CPR) certification or concurrently. Principles and practices of life saving for American Red Cross certification. (Fee: \$37.00) 4 lab.

220 Water Safety for Instructors (3)

Prereq: current Lifeguard Training certificate. For those who hold valid American Red Cross Life Saving certificate. Includes analysis of swimming, life saving techniques, and teaching practices. (Fee: \$37.00) 2 lec, 2 lab.

221A Tennis (1)

Prereq: major or minor or perm. (fall) Increases tennis skill and knowledge competency of students majoring in physical education. 2 lab.

221B Badminton (1)

Prereq: major or minor or perm. (fall) Increases badminton skill and knowledge competency of students majoring in physical education. 2 lab.

222 Tumbling and Modern Gymnastics (2)

Prereq: major or minor or perm. (fall) Stunts, tumbling, and modern gymnastics. 4 lab.

223 Track and Field (2)

Prereq: major or minor or perm. (spring) Track and field activities. 4 lab.

224A Racquetball (1)

Prereq: physical education major or perm. Increases racquetball skill and knowledge competency of students majoring in physical education. 2 lab.

224B Wrestling (1)

Prereq: physical education major or perm. (winter) Familiarizes physical education major with skills and knowledge necessary for successful teaching of wrestling. 2 lab.

234 Clinical and Field-Based Experiences in Physical Education (1-4, max 4)

Prereq: 134; 273 or 275; soph. Supervised practice in organizing, managing, and teaching physical education activities to school-age children in public school and clinical settings.

260A Flag Football (1)

Prereq: physical education major or perm. (fall, alt yrs) Increases flag football competency of students majoring in physical education. 2 lab.

260B Team Handball (1)

Prereq: physical education major or perm. (fall, alt yrs) Increases team handball competency of students majoring in physical education. 2 lab.

261 Practicum in Sport Science (1)

Prereq: sport science major or perm. Lab and field experiences designed to place students in various settings related to their program emphasis. 2 lab.

262A Field Hockey (1)

Prereq: physical education major or minor or perm. (fall, alt yrs) Focuses on producing performance competency in skills, with knowledge of rules of activities involved and with ability to apply strategies in games. Team play valued as cooperative project. 2 lab.

262B Soccer (1)

Prereq: physical education major or minor or perm. (fall, alt yrs) Focuses on producing performance competency in skills, with knowledge or rules of activities involved and with ability strategies in games. Team play valued as cooperative project. 2 lab.

263A Basketball (1)

Prereq: physical education major or minor, perm. (winter) Increases basketball skill and knowledge competency of students majoring in physical education. 2 lab.

263B Volleyball (1)

Prereq: physical education major or minor, perm. (fall, winter) Increases volleyball skill and knowledge competency of students majoring in physical education. 2 lab.

2648 Softball (1)

Prereq: physical education major or minor or perm. (spring) Focuses on developing student competency in softball skills, with understanding of strategy in activities and knowledge of official rules and their application. 2 lab.

2648 Lacrosse (1)

Prereq: physical education major or minor or perm. (spring) Develops student competence in lacrosse with understanding of strategy in activities and knowledge of official rules and their application. 2 lab.

265 Diving and Competitive Swimming (2)

Prereq: 104 or equiv. (spring) Familiarizes students with mechanics and performance skills of competitive swimming and diving. Adding this course as elective to aquatics specialization will widen scope and better prepare physical educators with aquatics interest. 4 lab.

270 Teaching of Physical Education (3)

Prereq: elem ed or early childhood/primary majors. Lab and lecture experiences for teaching physical education in elementary school. 2 lec, 2 lab.

273 Movement Education and Fundamental Skills (3)

Prereq: physical education major or minor; soph. (fall, winter) Theory, teaching methods, techniques, and materials in elementary school physical education with emphasis on basic movement education for grades K-3. 2 lec, 2 lab.

274 Sport and Game Skills for Elementary School Children (3)

(winter, spring) Theory, techniques, and materials for elementary school physical education program with emphasis on lead-up activities, creative game analysis, and sport and recreational skills for grades 4-6. 2 lec, 2 lab.

275 Elementary School Rhythms and Dance (3)

(fall, spring) Rhythmics and dance activities for elementary level, involving movement exploration, creative dance, and traditional dance.

290 Teaching Aerobic Exercise and Dance (4)

(fall, winter) Introduces students to area of aerobic dance/exercise, its history, characteristics, and related information necessary to development. 3 lec, 2 lab.

302 Biomechanics (4)

Prereq: BIOS 301 or 302. Analysis of human movement based on anatomical and mechanical principles. 4 lec. (Same as BIOS 352.)

305 Coaching of Swimming (2)

Prereq: 212 or soph. (fall) Theory of coaching swimming and diving; analysis of skills, methods, duties, and responsibilities. 2 lec.

313 Sport Club Management (3)

Prereq: MGT 200, jr or perm. (spring) Focuses on application of management theory to a sport business. Emphasizes decision making techniques and communication skills leading to effective planning, organizing, and controlling a sport-related service or product. 3 lec.

314 Coaching Sports for the Disabled (2)

Prereq: jr and perm. (arranged) Examines scope of coaching techniques, training programs, and principles of competitive sports for disabled people. 1 lec, 2 lab.

318 Coaching of Tennis (3)

Prereq: 212 or soph. (arranged) Theory of coaching tennis: analysis of skills, strategies, methods, duties, and responsibilities. Limited practical work. 2 lec.

319 Analysis of Current Research in Physical and Motor Development of Athletes (3)

Prereq: 212 or soph. (fall) Physiological, anatomical, and kinesiological research finding which maximizes motor performance and minimizes injury. Special emphasis on utilization of research in competitive sports. 3 lec.

320 Coaching of Wrestling (3)

Prereq: 212 or soph. (fall) Theory of coaching wrestling: analysis of skills, strategies, methods, duties, and responsibilities. 2 lec.

324 Coaching of Soccer (3)

Prereq: 212 or soph. (arranged) Theory of coaching soccer: analysis of skills, strategies, methods, duties, and responsibilities. 2 lec.

325 Human Dynamics in Sport (3)

Prereq: 106 or 212. (winter) Interpersonal dimensions of coaching and participating in interscholastic athletic programs.

333 Adapted Physical Education (4)

Prereq: 234; 273 or 274 or 275. (winter, spring) Organization of physical activity programs adapted to needs of atypical individuals. 3 lec, 2 lab.

334 Clinical and Field-Based Experiences in Physical Education (1-4, max 4)

Prereq: 134; 273 or 275; jr. Supervised practice in organizing, managing, and teaching physical education activities to children in public schools and in clinical settings.

335 Adapted Physical Education for the Special Educator (3)

Prereq: EDSP 160, 271. (spring) Designed to offer insight and practical experience in the areas of motor deficiencies of children. Provides for the acquisition of observation skills, motor analysis skills, motor progressions, and the process of adapting skills, activities, and equipment to the motor needs of children with disabilities. 2 lec, 2 lab.

337 Dance Composition (2)

Prereq: 108 or equiv. (arranged) Basic principles of composition, presentation, and choreography.

339 Athletic Officiating—Football (3)

(fall) Rules, mechanics, and procedures in officiating. Practice under actual game conditions in Intramural Sports Program. 1.5 lec, 2 lab.

340 Athletic Officiating—Basketball (3)

(winter) Rules, mechanics, and procedures in officiating. Practice under actual game conditions in Intramural Sports Program. 1.5 lec, 2 lab.

341 Athletic Officiating—Baseball (3)

(spring) Rules, mechanics, and procedures in officiating. Practice under actual game conditions in Intramural Sports Program. 1.5 lec, 2 lab.

342 Sports Officiating III (1)

(spring) USWLA rules and procedures in officiating lacrosse; or USFHA and Federation rules and procedures in officiating field hockey. Fee required for those taking local, state, or national rating examination.

345 Introduction to Exercise Physiology (4)

Prereq: 105, BIOS 301 or 302. (spring) Introduces the basic physiological principles of organ systems and body function during exercise. Special emphasis on the function of the nervous, muscular, cardiovascular, and respiratory systems and how they respond to exercise and exercise conditioning. Application of these principles in examining the optimal means to promote health-related fitness and optimal athletic performance. 4 lec.

350 Independent Study (1-5)

Prereq: jr, perm. Study and/or research in selected fields related to physical education, athletics, or sports sciences under direction of HPES undergraduate committee and faculty member.

351 Coaching of Golf (2)

Prereq: 212 or perm. (arranged) Theory of coaching golf: analysis of skills, strategies, methods, duties, and responsibilities. 2 lec.

352 Coaching of Ice Hockey (3)

Prereq: 212 or soph. (arranged) Theory of coaching ice hockey: analysis of skills, strategies, methods, duties, and responsibilities. 2 lec.

353 Coaching of Lacrosse (3)

Prereq: 212 or soph. (arranged) Theory of coaching lacrosse: analysis of skills, strategies, methods, duties, and responsibilities. 2 lec.

354 Coaching of Volleyball (3)

Prereq: 212 or soph. (spring, alt yrs) Theory of coaching volleyball: analysis of skills, strategies, methods, duties, and responsibilities.

356 Coaching of Field Hockey (3)

Prereq: 212 or soph. (spring, alt yrs) Theory of coaching field hockey: analysis of skills, strategies, methods, duties, and responsibilities. 3 lec.

365 Coaching of Basketball (3)

Prereq: 212 or soph. (fall, alt yrs) Theory of coaching basketball: analysis of skills, strategies, methods, duties, and responsibilities. 2 lec.

366A Coaching of Baseball (3)

Prereq: 212 or soph. (fall, alt yrs) Theory of coaching baseball: analysis of skills, strategies, methods, duties, and responsibilities. 3 lec.

366B Coaching of Softball (3)

Prereq: 212 or soph. (fall, alt yrs) Theory of coaching softball: analysis of skills, strategies, methods, duties, and responsibilities. 3 lec.

367 Coaching of Football (3)

Prereq: 212 or soph. (spring, alt yrs) Theory of coaching football: analysis of skills, strategies, methods, duties, and responsibilities. 3 lec.

368 Coaching of Track (3)

Prereq: 212 or soph. (spring, alt yrs) Theory of coaching track: analysis of skills, strategies, methods, duties, and responsibilities.

372 Theory and Practice of Sports (3)

Prereq: 2 credits each in individual and team sports. (spring) Analysis and teaching progression of individual sport skills. Organizational techniques and practices. Lesson and unit planning. 2 lec, 2 lab.

373 Adapted Aquatics (3)

Prereq: 220 or perm. (fall) Analysis and teaching progression of aquatic skills and related activities. Organizational techniques and practices. Lesson and unit planning. 2 lec, 2 lab.

374 Theory and Practice in Rhythmic Activities (3)

Prereq: 107 or 108; 116; intermediate modern dance skill recommended. (arranged) Teaching progression and materials for rhythmic programs on secondary level. Lesson and unit planning.

375 Theory and Practice of Women's Gymnastics (3)

Prereq: 222, 225. (arranged) Materials, techniques, and practice of artistic and rhythmic gymnastics. Lesson and unit planning. 2 lec, 2 lab.

377 Theory and Practice of Elementary Physical Education (3)

Prereq: 273, 275. (spring) Study of scope and sequence of elementary physical education program (K-8), development of understanding for interrelationship of curriculum, unit, and lesson planning, and refinement of teaching skills unique to teaching elementary physical education. 2 lec, 2 lab.

380 Life Guard Training Instructor (2)

Prereq: current Lifeguard Instructor Training certificate. (spring) Focuses on the responsibilities of the lifeguard, lifeguard conduct, preventative lifeguarding, emergency plans for all types of facilities, and health and sanitation. (Fee: \$37.00) 4 lab.

390 Safety Education (4)

Prereq: jr. Preparation for assuming responsibility for programs of safety education and accident prevention in schools, industry, and public services. 4 lec.

400 Women in Sports (3)

(winter) Examines the role of play, sports, and games in the life of women. Explores place of women in sports world, and reflects on special attitudes and structures of women's sports. 3 lec.

402 Teaching and Curriculum Strategies in Physical Education (4)

Prereq: 372, 377. (fall) Discussion and application of selected methods and techniques used in teaching of physical education. 4 lec.

404 History and Principles of Physical Education (4)

Prereq: jr or sr. (fall, spring) History of sport and physical education from ancient to modern times. Principles underlying physical education in modern program of education.

405 Motor Learning (4)

Prereq: jr. (fall, winter) Consideration of psychological, sociological, and physiological bases of learning and application of these theories to performance. 4 lec.

406 Organization and Administration of Physical Education (4)

Prereq: jr or sr. (fall, winter) Organization and administration of physical education, intramural, and athletic programs in elementary and secondary schools. 4 lec.

408 The Black Athlete and American Sport (3)

Prereq: jr or sr, or perm. (fall, alt yrs) Explores origins of black athlete's participation in American sport and examines role of black men and women in growth of American sport and physical activity during 19th and 20th centuries.

409 Tests and Measurements (4)

Prereq: major or minor, jr or sr. (winter, spring) Administration and evaluation of tests in health, physical education, and athletics; practice in handling test data by elementary statistical methods.

411 The Olympic Movement (3)

Prereq: jr or sr, or perm. (fall, alt yrs) Study of origin and development of games from Greek era to modern period. Meaning of Olympism in relation to contemporary summer and winter Olympiads explored. 3 lec.

412 Administration of Sports (3)

Prereq: 106 or 212. (spring) Focuses upon legal questions, public relations, ethics, budgeting, recruiting, crowd control, evaluation, and personnel. 3 lec.

414 Physiology of Exercise (4)

Prereq: BIOS 345; HPES 415 or concurrent. (fall) Fundamental concepts an application of organ systems responses to exercise; special reference to skeletal muscle metabolism, energy expenditure, cardiorespiratory regulation, and training and environmental adaptations. 4 lec. (Same as BIOS 445.)

415 Physiology of Exercise Lab (2)

Prereq: BIOS 345; HPES 414 or concurrent. (fall) 6 lab. (Same as BIOS 446.)

417 Exercise Prescription (4)

Prereq: 414, 415. (winter) Application of anatomy, physiology, and exercise physiology in the evaluation of physical fitness of both normal and special populations. Importance of test results in relation to disease conditions and in writing appropriate exercise prescriptions to promote a healthful life style or provide rehabilitation from previous health problems. 2 lec, 4 lab.

418A Instructional Experiences (1-3)

Prereq: perm. Supervised practice in organizing and teaching activities in college and athletic settings.

418F Elementary Physical Education (3)

Prereq: perm. (summer) Lab and lecture experiences for teaching physical education in elementary school.

418U Athlete Behavior (1)

Prereq: perm. (fall) Orientation class for new student-athletes

418B-E: G-T; V-Z Special Topics Seminars (1-15)

Prereq: perm.

434 Clinical and Field-Based Experiences in Adapted Physical Education (1-4, max 4)

Prereq: 333 Supervised practice in organizing, managing, and teaching physical education activities to school-age children in public school and clinical settings.

455 Administration of Aquatic Facilities (3)

(spring) Prepares students to supervise a facility and provides background for the mechanical functions of a pool and the organization of a total aquatic program. 3 lec.

480 Teaching Adapted Physical Education: Analysis and Description (3)

Prereq: 234, 333 (winter) Methods and materials of teaching-learning process for physical education classes. 3 lec.

485 Perceptual Motor Development in Children (3)

Prereq: 106, 405, or perm. (spring) Principles and practices in perceptual-motor development as they relate to children's movement experiences. 2 lec, 2 lab.

490 Internship in Sport Sciences (16)

Prereq: sport science major, jr or sr. Elective internship with approved firm, agency hospital, unit, school, or organization.

Recreation Studies (HREC)

101	Orienteering	1
102	Advanced Orienteering	1
103	Survival I	1
104	Survival II	1
105	Whitewater Rafting	1
106	Hunting	1
107	Trapshooting	1
108	Technical Climbing and Rappelling	1
109	Advanced Survival	1
111	Cross Country Skiing	1
112	Backpacking I	1
113	Canoeing	1
114	Kayaking	1
	Fee: Aquatic Center fees	
115	Ropes	1
116	Rescue Techniques	1
117	Primitive Construction	1

199 Introduction to Therapeutic Recreation Services (3)

(fall) Factors presented will serve as foundation for career or employment in therapeutic services in both public and private settings for disabled, delinquent, and disadvantaged. 3 lec.

200 An Introduction to Leisure (2)

(fall, winter) Provides student with broad understanding of nature and scope of leisure behavior and resources on which they can build their subsequent specializations. 2 lec.

201 Recreation for Special Populations (4)

Presents characteristics and leisure needs of various special populations and techniques for planning and conducting special recreation activities. 4 lec.

214 Camping for Special Populations (2)

Prereq: 199. (spring) Develops and teaches implementation of camping activities for special populations with emphasis on strengths and weaknesses of individual camper. 2 lec.

236 Field Experience in Recreation (1-3)

Prereq: soph, recreation major/minor. Designed to provide sophomore recreation student with opportunity to acquire supervised experiences in skills and techniques involved in differing areas of recreation.

240 Taxidermy I (2)

Prereq: soph or perm. (arranged) Study and practice of methods used to produce specimens that are exact replicas of living animals. Emphasis on birds. 1 lec, 2 lab.

241 Taxidermy II (2)

Prereq: 240 or perm. (arranged) Continuation of 240, with major emphasis on game animals and fish. 1 lec, 2 lab.

250 Recreation Leadership (3)

Prereq: soph. Lectures and discussions concerning value of recreation, leadership techniques, and selection of activities. 3 lec.

251 Art and Nature Crafts for Recreation Programs (3)

Prereq: recreation major/minor and/or perm. (fall, winter) Organization of art and nature crafts program and actual experiences in use of various craft materials with particular emphasis on nature crafts.

290 Recreational Sport Officiating (3)

Prereq: soph. (fall, spring) Provides meaningful, educational experience of practical nature in area of sport officiating. 2 lec, 2 lab.

291 Outdoor Pursuits (3)

(fall) Provides student with basic skills and knowledge to teach selected outdoor activities. 2 lec, 2 lab.

301 Leisure Education and Facilitation Techniques (4)

Prereq: 199, 200. Study of leisure education models and concepts; application and understanding of facilitation techniques in therapeutic recreation services. 3 lec, 2 lab.

310 Program Planning and Facilities for Recreation (5)

Prereq: recreation major/minor or perm. (fall, spring) Concepts and fundamentals of recreation programs, program planning and care, selection, and design of recreation facilities. 5 lec.

311 Expedition Management (3)

Prereq: jr or perm. (winter) Will assist student in planning and competently leading wilderness camping expedition. Will acquaint student with all aspects of expedition leadership. Student will develop and lead expedition in competent, safe manner. 2 lec, 2 lab.

314 Camping (4)

Prereq: recreation major/minor or perm. (fall, spring) Introduction to and experiences in different methods of camping and various skills associated with camping.

315 Outdoor Education and Recreation (4)

Prereq: recreation major/minor and/or perm. (fall, spring) Designed to provide student with fundamental knowledge necessary to provide learning experiences in out-of-doors and for teaching necessary skills for outdoor living enjoyment.

336 Field Experiences in Recreation (3)

Designed to provide junior recreation student with opportunity to acquire experience in skills and techniques involved in differing areas of recreation.

345 Camp Leadership (2)

(winter, spring) Responsibilities of camp personnel at executive, administrative, supervisory, and functional levels. Includes different types of organized camps and their individual programs.

350 Independent Study (1-5)

Prereq: jr, perm.

370J Writing for Recreation Studies (4) (1J)

(winter, spring) Jr or sr. Allows the student to practice the writing process while investigating current issues and trends in the recreation and leisure field. 4 lec.

376 Principles and Practices of Therapeutic Recreation (3)

Prereq: 199. (winter) Study of therapeutic recreation service, principles, and practices in various types of institutions. 3 lec.

377 Administration of Activities for Therapeutic Recreation (3)

Prereq: 376. (fall) Assessment and analysis of leisure time activities for the disabled, with emphasis on contributions these activities can make in rehabilitation of those special populations. 3 lec.

381 Administration of Recreational Sports (4)

Prereq: soph. Organizing and administering a program of intramural sports for all age levels. 4 lec.

390 Wilderness Survival (3)

(spring) Provides student with basic skills and knowledge to survive in wilderness situation, to cope with wilderness emergencies, and to teach wilderness survival. 3 lec, 1 weekend trip.

403 History of Recreation (3)

Prereq: recreation major/minor or perm. (fall) Study of historical development of recreation from early worlds to present. Emphasis on contribution of recreation and its effect on humans throughout history and its impact and implication for humankind's use of leisure time in present-day society. 3 lec.

418A Instructional Experiences (1-15)

Prereq: perm. Supervised practice in organizing and teaching activities in college and recreational settings.

418B-2 Special Programs in Recreation (1-15)

Prereq: perm. Provides the recreation major or professional unique experience and instruction in specialized topics. Designed as short-term mini-courses, seminars, and specialized workshops. Some may have additional fees attached; check Schedule of Classes for information.

430 Principles of Therapeutic Recreation for the Mentally Retarded (3)

(spring) Preparation for presenting activities and evaluating mentally retarded and learning disabled children and youths in areas of body mechanics, physical fitness, games of low organization, sports, rhythms, stunts, tumbling, and recreation activities. 3 lec.

440 Internship in Recreation (16)

Prereq: recreation major/minor and perm. Supervised professional field work experiences in approved program of recreation.

449 Administration of Recreation (4)

Prereq: jr. (winter) Programs and program building; administration of playgrounds, community centers, and recreational activities. 4 lec.

460 Understanding Play (3)

(spring) Study of selected play theory for purpose of developing recreation therapy programs. 4 lec.

470 Comprehensive Program Planning in Therapeutic Recreation (3)

Prereq: 199. (winter) Designed to prepare students to assess handicapping conditions; to determine consequences of these conditions; and to direct and plan therapeutic activities which contribute to disabled person's maximum recreational functioning. 3 lec.

471 Specific Program Planning and Evaluation in Therapeutic Recreation (4)

Prereq: 470. In-depth examination of therapeutic recreation planning and evaluation as it relates to specific programs using a systems theory approach. 3 lec.

472 Professional Issues in Therapeutic Recreation (4)

Prereq: sr. In-depth investigation of contemporary professional issues and their relationship to current and future development of therapeutic recreation services. 4 lec.

475 Adventure Programming (3)

(spring) Prepares student to plan, organize, and conduct outdoor adventure activities. 3 lec, 1 lab.

Women's Activities (HSW)

These courses are for students wishing to gain competency in an activity. Courses are offered on a pass/fail basis. NOTE: While no limit overall has been set for repeats of HSC, HSM, and HSW courses, individual majors, schools/departments, and/or colleges may limit the number of such hours that will count toward graduation.

103	Basic Movement		1
104	Basketball		1
105	Conditioning and Weight Training		1
106	Gymnastics		1
108	Swimming	Fee: \$25	1
109	Intermediate Swimming	Fee: \$25	1
110	Lacrosse		1
111	Softball		1
112	Racquetball		1
116	Broomball	Fee: \$25	1
142	Women's Self Defense		1

Reserve Officers Training

See Aerospace Studies or Military Science.

Russian

See Foreign Languages and Literatures.

Security/Safety Technology (SST)

The following courses for the A.A.S. in security/safety technology are available only on the Chillicothe campus.

101 Introduction to Protective Services (3)

Overview of private security profession. Student will be able to relate private security's function to its proper perspective in today's complex society and to see where private security and its various functions fit into criminal justice system.

110 Physical Security Systems (3)

Physical security requirements and standards. Includes study of various physical security systems plus technical devices employed in industrial, retail, and institutional security operations.

120 Occupational Safety and Health (3)

Analysis and implementation survey of federal laws pertaining to occupational safety and health standards and criteria.

201 Fire Safety and Fire Codes (3)

Function and objective of fire prevention programs, e.g., recognition and correction of fire hazards; enforcement of codes and ordinances; knowledge of federal, state, and local fire laws and codes. Further emphasis on fire prevention and fire protection.

210 Loss Prevention in Modern Retailing (3)

Detailed study of use of proper controls in loss prevention and loss detection in retailing industry. Emphasis on providing students with sound background for determining their needs in such areas as physical security, inventory security, security surveys, personal screening, risk analysis, and loss prevention as total systems approach.

220 Analysis of Security Needs—Survey (3)

Methodology used in making security, e.g., selection of scope, team composition, design of survey, compiling data, evaluation of planning, implementation, and results of corrective measures.

230 Information and Data Systems Security (3)

Introduction to theory and application of automated information data systems. Detailed study of security hazards involved in use of data systems. Laws pertaining to Right to Privacy Act included as part of course content.

240 Security Administration (3)

Introduction to corporate security administration including historical and legal framework for security operations as well as detailed presentations of specific security processes and programs utilized in providing security.

250 Current Problems in Security (3)

Analysis of special problem areas in security such as security education and training, community relations, labor problems, and disaster planning. Other specific areas analyzed for further research by individual students depending upon their interest. These later areas may include bank security, campus security, computer security, hospital security, and various other areas.

260 Analytical Accounting (3)

Specifically designed for security administration majors. Covers areas such as audit tracing, cash flow analysis, inventory system analysis, and other auditing principles used to protect assets and discover losses.

290A-Z Special Area Studies (3-4)

Courses designed to provide flexibility to satisfy needs of particular industry in our area of individual student who would like to pursue further study in specialized area.

Social Work (SW)

The Department of Social Work offers a flexible interdisciplinary curriculum designed to prepare students for beginning generalist social work practice. Students completing the program will receive the A.B. degree with a major in social work. The Department of Social Work is fully accredited by the Council on Social Work Education. Graduates are qualified for full membership in the National Association of Social Workers and are eligible for licensing as social workers in Ohio.

Program Requirements

General requirements for a major in social work consist of a minimum of 55 hours of social work courses, plus at least 45 quarter hours of liberal arts foundation courses. Departmental required courses are the following:

101	Intro to Social Welfare and Social Work	3
290	Social Welfare as an Institution	4
350	Research Methods in Social Work	4
383	Intro to Social Work Practice Methods	4
390	Social Policy	4
393	Dynamics of Human Behavior I	4
394	Dynamics of Human Behavior II	4
490A	Social Work Practice	8
490B	Social Work Practice	10
490C	Social Work Practice	10

The following liberal arts foundation courses also are required:

BIOS 103	Human Biology
PSY 121	Elementary Statistics
PSY 273	Child and Adolescent Psychology
PSY 332	Abnormal Psychology
PSY 374	Psychology of Adulthood and Aging

In addition to these foundation courses, 27 hours are taken in the social sciences, including at least one course in each of the following areas: anthropology, economics, political science, and sociology. The choice of courses in these disciplines is left to the student with the approval of the student's faculty advisor and the permission of the instructor. Social work elective courses may be used to substitute for up to a maximum of four hours of this social sciences requirement.

The department also offers the social service minor for those students interested in social welfare. Requirements consist of a minimum of 29 hours at the 300 level, with the following courses required: SW 101, 190, 290, 383, 390, 393, 394, and one social work elective. Students should note that the minor does not make them license-eligible in states regulating the practice of social work.

Admission to the Professional Major

Admission to the program is divided into two stages: preprofessional and professional. Freshmen are admitted as preprofessional majors to work on freshman- and sophomore-level requirements. However, to be admitted to the professional program, all prospective students, including Ohio University and transfer students, are required to submit a written application and an admissions essay to the department's screening committee at the end of the winter quarter of their sophomore year. (Application forms and guidelines for the essay are available from the department.) To be considered for admission, students are expected to have a minimum overall g.p.a. of 2.5. In addition, they must have completed the following: (1) both SW 101 and SW 290 with a "C" average; (2) BIOS 103, PSY 273, as well as one course each in anthropology, economics, political science, and sociology; (3) Tier I composition (ENG 151, 152) and quantitative skills (PSY 121) requirements; (4) at least one year of the foreign language requirement other than high school; (5) a paid or volunteer experience in the area of social work.

A student seeking to enroll in the senior-level practice sequence (SW 490A-C) must have been admitted to the major. In addition, the student is expected to (1) have maintained an overall g.p.a. of 2.5; (2) have completed the foreign language requirement; and (3) have completed the prerequisites for SW 490A.

101 Introduction to Social Welfare and Social Work (3) (2S)

Provides an overview of a range of social problems and society's response to them through the social service delivery system. The problems and services described include: child abuse and neglect, drug and alcohol abuse, poverty, aging, mental health and illness, corrections, and others. Within this context, various career options and professional roles will be described, including that of social work.

190 Social Work as a Profession (2)

Prereq: social work major or perm. This course, normally taken concurrently with 101, provides social work majors with a 30-hour field experience to observe operations of social service organization and roles and functions of social workers and other helping professionals. Weekly seminar.

290 Social Welfare as an Institution (4)

Prereq: 101. (fall, winter) Nature of social welfare as social institution, stressing scope of social welfare activity; historical development; value orientation; response to critical social problems, issues in social policy, and emergence of social work as profession.

350 Research Methods in Social Work (4)

Prereq: major, PSY 121, jr or perm. General overview of the social work research process, based on the problem solving method. Special emphasis on the evaluation of practice with clients. Examines measurement instruments, sampling procedures, research designs, data collection methods, program evaluation, qualitative research, ethical issues, and the writing of research reports

380 Child Abuse and Neglect (4)

Prereq: jr or sr plus 18 hrs in social sciences. Examines processes of identification, reporting, referral, and case management of child abuse and neglect cases. *Multidisciplinary approach to these processes described.*

381 Counseling Older Adults (4)

Prereq: PSY 101 plus jr. Focuses on basic counseling, communication, and intervention skills needed by persons working with aged. Problems specific to later yrs discussed. Field work component provides opportunity for interaction with older adults.

382 Understanding Alcohol Problems and Alcoholism (4)

Prereq: jr or sr. Provides knowledge and understanding of the biopsychosocial aspects of alcohol problems and alcoholism. Examines the causes and consequences of alcohol abuse, diagnostic issues, intervention, treatment, and aftercare. Also the impact of alcoholism on the family and other special groups is explored.

383 Introduction to Social Work Practice Methods (4)

Prereq: major, jr, or perm. Focuses on development of effective social work communication skills as they relate to social work relationship and professional practice.

384 Social Welfare Law (4)

Prereq: 101 or perm. Examines the need for cooperation between the worlds of business and social welfare within the context of the legal system as it addresses the needs of the poor, the elderly, minorities, and families. Focuses on development of interpersonal problem-solving skills and team building, considering both socioeconomic and legal factors.

385 Administration and Supervision in Human Services (4)

Prereq: jr or perm. Focuses on the description, analysis, and application of principles of administration and supervision that are relevant to human service agencies. Examines knowledge and skill bases of effective administration and supervision and applies them to the beginning employee.

390 Social Policy (4)

Prereq: 290 or perm. Examination of social policy stressing policy development; relationships of policy, goals, and organizational structure; and decision-making patterns and role assignments within social welfare organizations and agencies.

393 Dynamics of Human Behavior I (4)

Prereq: major, BIOS 103, PSY 273 or perm. (fall) 1st in 2-course sequence designed to present holistic approach to assessing social functioning with emphasis on human diversity and integration of knowledge of behavior fundamental to practice of social work.

394 Dynamics of Human Behavior (4)

Prereq: major, 393, PSY 374 or perm. (winter) Expands on 393 and further examines development and functioning of individual within developmental, systems, and ecological framework.

395 Aging in the Welfare State (4)

Prereq: jr, plus 18 hrs in social sciences. Review of available knowledge on social life and problems of aged in America. Attention devoted to social welfare policies and services designed to meet needs of elderly.

490A Social Work Practice (8)

Prereq: majors only; 383, 390, 394, and perm. (fall) 1st of 3-qr sequence offering field placement, seminar, and twice-wkly class. This qtr focuses on context of social work practice, application of social work's ethical value system, communication, and development of analytical skills for engaging in problem-solving process. (Students provide own transportation.)

490B Social Work Practice (10)

Prereq: 490A, 350, and perm. (winter) Continuation of field placement with increased time in placement and practice seminar from previous qtr and twice-wkly class. This course further develops the generalist approach to the problem solving model used in 4901A and applies the model to working with groups, families, and communities.

490C Social Work Practice (10)

Prereq: 490B and perm. (spring) Continuation of previous qtr's field placement and practice seminar with twice-wkly class. Final phases of problem-solving process, evaluation, and termination examined. Additional topical areas include: grantsmanship, teamwork, and effecting organizational change. (Students provide own transportation.)

498 Independent Studies and Special Projects in Social Work (1-10)

Prereq: 12 hrs SW and perm. Student responsible for design and implementation of course of study or special project in area related to social work. Student interested in course must submit proposal for approval by dept chair at least 30 days prior to enrollment in course. Course may be repeated until 10 hrs of credit earned

Sociology (SOC)

(Major code #BA4251)

The major requirement for the A.B. in sociology is a minimum of 45 quarter hours of courses in sociology, of which at least 16 hours must be at the 400 level, and including: introductory sociology (101), the course in methods (351), and one course in theory (403 or 404). In addition, a statistics course (PSY 121 or its approved equivalent) is required. (Courses in anthropology count toward the Arts and Sciences social sciences requirement.)

In addition to the major in sociology, the department offers a minor. The requirement for the minor is a minimum of 28 hours of coursework in sociology, of which at least 16 hours must be at the 300 or 400 level; SOC 101; the course in methods (351); and one course in theory (403 or 404).

The Department of Sociology also offers special programs of study in the areas of criminology and prelaw. See the section entitled Special Curricula, in this catalog, under the College of Arts and Sciences for information concerning the programs.

101 Introduction to Sociology (5) (2S)

Nature of human society and factors affecting its development. Fundamental concepts of sociology: culture, personality, socialization, social organization, groups, institutions.

201 Contemporary Social Problems (4) (2S)

Prereq: 101 or soph or above. Sociological perspectives on social problems considered. Specific social problems analyzed may include problems related to crime, sexual inequality, poverty, minority groups, drug and alcohol abuse, mental illness, environment, and others.

210 Introduction to Social Psychology (4)

Prereq: 101. Patterning of individual behavior from social interactions. Analysis of individual-group relationships in various social settings. Current theory and research in social psychology.

211 Collective Behavior (4)

Prereq: 101. Study of collective behavior including the formation of crowds; behavior in crowds; behavior in panics, disasters, fads, and riots; and the impact of collective behavior on society.

220 Introduction to the Family (4)

Prereq: 101. Emphasis on American family and how it has been changing. Topics include interaction within family, family in relation to other institutions, mate selection, marriage and its alternatives, family disorganization, and future of American family.

223 American Society (4) (2S)

Prereq: 101 or soph or above. Sociological analysis of the institutional context of major contemporary social issues. Specific issues analyzed may include industrialization, urbanization, bureaucracy, militarism, structure of power, social inequality, and others.

230 Sociology of Poverty (4)

Prereq: 101. Critical examination of theories of poverty, how poverty is defined and measured, theoretical implications of research on poor, consequences of poverty, and strategies to fight poverty

231 Sociology of Health and Health Care (4)

Prereq: 101. Examination of social definitions of health and disease, distributions of health and disease, and health care delivery. Particular attention devoted to medical education, various health care delivery systems, and contemporary social issues in medicine.

233 Sociology of Sport (4)

Prereq: 101. Analysis of social aspects of sport, with emphasis on interrelationship of sport and society. Focuses on topics such as social values, education, sport roles, religion, socialization, mass media, sexism, and racism; oriented to student with interest in sports.

240 The Future Society (4)

Prereq: 101. Outline of possible futures of society by projection from baseline data on population growth and mobility; patterns of resource and energy consumption; quantitative and qualitative dimensions of modification of human habitat; evolution of technology; and nature of human culture and social structure as they relate to above. Students will have opportunity to speculate on society of future.

280 Sociology of Popular Music (4)

Prereq: 101. Popular music as meaning, performance, group activity, and industry, and expression of cultural forms, values, and concepts. Focuses on describing and analyzing these dynamics, with specific emphasis on messages, functions, and organizational behavior.

305 Readings in Sociology (1-6, max 6)

Prereq: 16 hrs SOC and perm. Independent, directed readings designed to expand student's understanding in selected area of interest.

309 Sociology of Appalachia (4)

Prereq: 8 hrs SOC, including 101. Intensive study of Appalachia from sociological perspective. Emphasis on population of Appalachia (number and distribution of inhabitants, characteristics of population, vital processes and migration), culture of rural poverty, acceptance of innovation and social change in Appalachia, major social institutions in area, and community power structure in Appalachia.

315 The Individual in Mass Society (4)

Prereq: 8 hrs SOC, including 101. Examines the diversity and complexity of social relationships between the person and society in terms of identity formation. Focus will include levels of socialization and their influence on the individual as a member of mass society.

327 Sociology of Education (4)

Prereq: 8 hrs SOC, including 101. School as social institution in relation to community and development of child; comparative systems of education; issues of access and inequality in delivery of educational services.

329 Minority Group Relations (4)

Prereq: 8 hrs SOC, including 101. Racial and ethnic problems in America; causes and consequences of prejudice and discrimination.

331 Class and Social Inequality (4)

Prereq: 8 hrs SOC, including 101. Causes and consequences of class and social inequality in selected societies. Critical examination of ideologies that claim to justify inequality.

334 Sociology of Aging (4)

Prereq: 8 hrs SOC, including 101. General introduction to social gerontology with emphasis on normal aspects of aging. Major emphasis on sociological dimensions of aging in context of such areas as socio-demographics of aging populations, values, roles, norms, self-concept, age stratification, aging patterns of minority groups, and application of current sociological theories of aging.

340 Human Population Ecology (4)

Prereq: 8 hrs SOC, including 101. Study of the relations among fertility, morbidity, mortality, and migration in selected human populations, and ecological, natural resource, and cultural variables which sustain and limit those populations.

351 Elementary Research Techniques (4)

Prereq: 8 hrs SOC, including 101. Research techniques in sociology. Research design; collection, recording, and analysis of data.

352 Field Studies in Sociology (1-10)

Prereq: 351 and perm. Planning, execution, and write-up of empirical study, utilizing skills developed in 351. Limited class meetings, conferences with instructor, research report.

356J Writing in Sociology and Anthropology (4) (1J)

Prereq: jr and perm, or 13 hrs sociology and/or anthropology. Jr-level composition course for sociology and anthropology majors and students in related fields. Combines writing instruction with consideration of substantive social science topic. Students try various styles of social science writing (book reviews; grant proposals; field notes; interviews; etc.).

361 Deviant Behavior (4)

Prereq: 8 hrs SOC, including 101. Theory and research concerning major types of deviant behavior and societal reaction to such things as criminality, suicide, drug addiction, and mental disorders. Causes and consequences of deviant behavior.

362 Criminology (4)

Prereq: 361. Theories and research in criminal behavior and societal reaction to criminality. Causes and consequences of crime.

363 Juvenile Delinquency (4)

Prereq: 361. Theories and research in delinquency. Causes and consequences of delinquent behavior among juveniles.

365 Sociology of Mental Illness (4)

Prereq: 8 hrs SOC, including 101. Study of social and cultural foundations of mental illness, including review of historic and contemporary definitions of madness and treatment of mental illness. Distribution of mental illness in population and social factors related thereto. Nature of commitment process and legal, moral, and social implications of commitment. Examination of legal processes pertaining to criminal insanity.

403 Development of Sociological Thought (4)

Prereq: 12 hrs SOC, including 101, or perm. Major sociological concerns and concepts in relation to their social-historical setting. Special emphasis upon sociological thought in 18th and 19th centuries.

404 Modern Sociological Theory (4)

Prereq: 12 hrs SOC, including 101, or perm. Critical examination of major sociological conceptual frameworks in 20th century.

406 Proseminar in Sociology (4)

Prereq: 20 hrs SOC. Critical examination of selected theoretical and research problems. Primarily for advanced students in sociology.

408 Latin American Society (4)

Prereq: 12 hrs SOC or prev course on Latin America or perm. Intensive study of Latin American society from sociological perspective. Emphasis on contemporary Latin American values, population problems, human-land relations, levels and standard of living, social institutions, urbanization, and social change.

412 Public Opinion Processes (4)

Prereq: 12 hrs SOC, including 101, or perm. Attitudes and opinions in relation to formation of public opinion; political socialization and participation; social status, reference groups, decision making; role of mass media.

413 Mass Communication (4)

Prereq: 12 hrs SOC, including 101, or perm. Personal and social functions of content in newspapers, radio, television, and film. Types of audiences and communication effects. Organization and control of mass media and problems in evaluation.

414 Contemporary Social Movements (4)

Prereq: 12 SOC, including 101, or perm. Organized movements resulting in major social changes: revolutionary, nationalistic, reform, religious; agitation, leadership, ideology; case studies of typical movements.

416 Society and the Individual (4)

Prereq: 12 hrs SOC, including 101, or perm. Exploration of compatibilities and/or contradictions in psychological systems, culture, and social structure.

419 Small Groups (4)

Prereq: 12 hrs SOC, including 101, or perm. Major theories and methods for study of small group as unit of social systems; communication patterns, role definition, leadership, cohesion; review of current literature.

424 Urban Sociology (4)

Prereq: 12 hrs SOC, including 101, or perm. Historical development and recent emergence of city as dominant feature of modern social life. Special emphasis upon demographic and ecological patterns and social organization of urban region.

425 Sociology of Food Production (4)

Prereq: 12 hrs SOC, including 101, or perm. Interest is in the social organization of the production of food and fiber and its evolution. Also examined are historical developments and current trends in populations and settlement patterns in the U.S. and in Third World nations as they are influenced by a changing agricultural technology.

428 Sociology of Religion (4)

Prereq: 12 hrs SOC, including 101, or perm. Interrelationship between religious institution and social structure from comparative perspective and with particular reference to American society.

429 Sociology of Race, Ethnicity, and Class (4)

Prereq: 12 hours SOC, including 329 or 331. This course is designed with a concern for understanding racism and classism at the macro level of analysis. An interpretation of social forces affecting race and ethnicity as determinants of social class will be covered. The course will enhance an understanding of racial and ethnic diversity.

430 Sociology of Organization (4)

Prereq: 12 hrs SOC, including 101, or perm. Concentrates on structure and process of formal organizations. Modern society dominated by giant bureaucracies. We shall study these bureaucracies in detail. Various sociological perspectives for viewing organizations considered and evaluated. Impact of organizations on individuals discussed and problems of living in society dominated by organizations treated in depth (usually Portsmouth campus only).

432 Political Sociology (4)

Prereq: 12 hrs SOC, including 101, or perm. Social and cultural basis of influence, power, and authority. Emphasis upon informal aspects of political process in groups and institutions other than government.

433 Sociology of Occupations and Professions (4)

Prereq: 12 hrs SOC, including 101, or perm. Professionalism as characteristic of modern economic and industrial complexes; popular conception and modern theory; social and technological preconditions; occupation-profession continuum; components, barriers, and strategy; mock-professionalism; motivation and satisfaction; controls; professionalism in particular professions.

435 Sociology of the Welfare State (4)

Prereq: 12 hrs SOC, including 101, or perm. Introduces students to major theoretical perspectives in the sociology of the welfare state, including industrialist, neo-Marxist, social-democratic, and "independent-state" perspectives. Focuses on how proponents of these sociological research perspectives deal with the emergence, organization, growth, and contemporary issues of the U.S. social welfare systems. Also some attention to the social welfare systems of Sweden and other European countries.

450 Data Analysis (4)

Prereq: 351 or perm. This course develops the ability to analyze research data in the social sciences. The linkages among measurement, statistics, and interpretation of results in social research will be explored. Unscheduled computer laboratory commitment is required (not open to those with credit for CS 322).

453 Research Problems in Sociology (2-6)

Prereq: 20 hrs SOC, including 351, and written perm prior to registration. Individual research in specific problem areas in which student has demonstrated ability and interest.

464 Social Control (4)

Prereq: 12 hrs SOC, including 101, or perm. Nature of institutional control and sociocultural constraint as they affect human behavior. Emphasis on contemporary trends in U.S. society and implications for human liberty.

465 Social Change (4)

Prereq: 12 hrs SOC, including 101, or perm. Dynamics and processes by which social change takes place; major theories of change; industrialization and modernization; social evolution and revolution; planned change; social impact of change.

466 Penology (4)

Prereq: 12 hrs of SOC, including 362 or 363. Examination of history, operation, and problems of punishment. Patterns of prison organization, inmate group structure, personnel organization, and racism examined. Purpose and effectiveness of penal institutions described. Prisons, juvenile institutions, parole, halfway houses, and alternatives to punishment studied.

467 Violence Against Women (4)

Prereq: 16 hrs of sociology. Examines related forms of violence where women are the predominant victims: forcible rape, marital rape, incest, spousal assault, date rape and assault, and sexual harassment. Role of pornography will be examined. Emphasis placed upon current theoretical and empirical findings and developments.

468 Community Based Corrections (4)

Prereq: 12 hrs SOC, including 362 or 363. Examination of the historical development and utilization of sentencing options other than incarceration. The focus is on community based programs such as home confinement, halfway houses, and restitution.

470 Sex Roles and Inequality (4)

Prereq: 12 hrs SOC, including 101, or perm. Examination of social and historical factors that have kept women subordinate to men in family and prevented them from achieving equality in labor force. Also explores prospects for change.

495 Internship in Criminology (5-10)

Prereq: sr criminology major and perm. Provides internship experience for students majoring in pre-criminology/sociology. Students will have opportunity to apply social science knowledge and methodologies and to gain direct job-related experience in criminal justice related agency.

Southeast Asian Studies

See International Studies

Spanish

See Foreign Languages and Literatures.

Telecommunications (TCOM)
105 Introduction to Mass Communication (4) (25)

All forms of mass communication including newspapers, magazines, radio-television, book publishing, public relations, advertising, and photojournalism. Begins with analysis of communication process and ends with media career opportunities.

121 Radio Performance (2)

Responsibilities and skills required of radio performer; practice in performance techniques for radio. 4 lab.

170 Media Perspectives (4)

Studies role of electronic mass media in American popular culture through examination of uses, forms, themes, and implicit values. Combines lecture, discussion, and analysis of personal media uses.

200A Telecommunications Writing and Production Planning (4)

Prereq: 300A. Introduction to nondramatic script writing in telecommunications. Examination of elements of preproduction preparation.

200B Audio Production (4)

Prereq: C or better in 200A. Introduction to basic audio theory and production skills, including console operation, editing, and mixing. 2 lec, 4 lab.

200C Video Production I (4)

Prereq: C or better in 200A. Introduction to basic video production skills and aesthetics. 2 lec, 4 lab.

206 Professional Options in Telecommunications (4)

Prereq: 200A. A survey of telecommunications fields; analysis of staffing and employment patterns in the electronic media; self-assessment; and ethical issues. Emphasis on preparation of study and career planning.

210 Introduction to Desktop Video (4)

Prereq: 200A or perm. Basic elements of video application of computer technology. Beginning graphics and animation.

308 Technical Bases of Telecommunications (4)

Electronic principles of reproduction and transmission of sounds and images; functions of audio and video equipment.

310 Advanced Video Graphics and Animation (4)

Prereq: 200C, 210 or perm. Advanced animation and computerized graphic design for video.

313 Field Audio Production (4)

Prereq: 200B. Location audio production techniques, including planning, acoustics, live mixing, interviewing, and feature production.

317 TV Studio Operations (2)

Prereq: 200C. Practical video studio experience as a member of production crew for magazine show or Athens Video Works programs.

318 Video Production II (4)

Prereq: 317, jr. Multicamera producing and directing. Lab experience in production of original studio programming.

319 Video Production III (4)

Prereq: 308, 318, video production sequence, and perm. Producing and directing of original video productions using single camera "film style" technique. Includes all phases of production process from concept to post production.

320 Television Lighting and Staging (4)

Prereq: jr. Tools and techniques for effective television lighting and set design and use. Experience in use of lighting plots, scrims and flags, gels, meters, waveform monitors, and vectorscopes. Construction of simple set pieces.

322 Television Performance (4)

Prereq: 200C. Advanced exercises in television performance. Assignments include hosting, weathercasting, interviewing, newscasting, and demonstrating.

331 Telecommunications Writing (4)

Writing for a variety of short form broadcast formats, including radio and television features, talk shows, documentaries, and instructional programs.

355 Broadcast and Cable Programming (4)

Prereq: jr. Broadcast and cable programming principles and practices; analysis and evaluation of programs and program formats.

360 Telecommunications Management (4)

Prereq: 355. Intensive overview of bases of telecommunications management; includes concepts relating to management theory, personnel motivation, organizational communication, and management's relationship to various aspects of organizational operation.

367 World Broadcasting (4)

Analysis of national telecommunications systems in terms of relevant political, social, economic, and cultural factors.

370 Mass Communication Theories (4)

Prereq: jr. Readings course surveying literature in mass communication theory. Special emphasis on telecommunications.

371 Effects of Mass Communications (4)

Prereq: jr and 370. Readings course designed to acquaint students with major areas of experimental research in individual and social effects of mass media.

384 Media Criticism (4)

Prereq: jr. Survey of contemporary methods of critical analysis as applied to television. Screenings include television programs of past, present, avant garde, mainstream.

390 On-Campus Practicum (1)

Prereq: TCOM majors and premajors only. Practical experience in Ohio University telecommunications facilities, including the All Campus Radio Network, Athens Video Works, and the Telecommunications Center training program.

391 Off-Campus Practicum (1)

Prereq: TCOM majors and premajors only. Practical experience in off-campus media facilities. May be taken during quarter breaks or in summer. Students are required to submit a proposal and work at least 40 hours.

405 Research Internship (1-9)

Prereq: perm. Opportunity for student to implement and complete major research study under supervision.

413 Studio Audio Production I (4)

Prereq: 200B, 308, jr. Advanced studio production techniques for audio, with introduction to analog and digital multitrack recording. Operational aspects of recording studios including typical equipment set-ups, ancillary equipment, microphone techniques, and equipment maintenance. Aesthetic topics as they relate to media, music, and dramatic production.

414 Studio Audio Production II (3)

Prereq: 413 and audio prod. sequence. Introduction to desktop audio production using Digidesign's Pro Tools hard disk recording system. Study of the operational aspects of the Macintosh computer platform. Music, media, and audio post-production for video will be covered.

415 Studio Audio Production III (4)

Prereq: 414 and audio prod. sequence. Operational aspects of 16-track analog recording. Laboratory experience in advanced audio for video incorporating SMPTE synchronization, multitrack recording, and New England Digital's Synclavier music system.

418 Producing for Video (4)

Prereq: 318 and perm. Developing programs for commercial, public, and corporate television. Covers program research, development, and testing of program concepts, and the production process.

419 Video Production III B (4)

Prereq: 318. Special projects in dramatic production for visual media.

421 Nonbroadcast Video Systems (4)

Prereq: 200C, jr. Study of use and management of telecommunications media in corporate, industrial, medical, educational, military, governmental, and public service institutions.

430 Script Analysis (4)

Prereq: jr. Analysis of narrative media scripts, programs, and films with special concentration on their construction, audience response, and factors in effectiveness.

431 Screenwriting for Film and Television (4)

Prereq: jr. Writing and critique of form, structure, and presentation of dramatic programs, series, and films.

432 Advanced Screenwriting for Film and Television (4)

Prereq: perm. Advanced writing course in which the experienced student creates substantive scripts.

440 Public Broadcasting (4)

Prereq: sr. Historical development, current status, and challenges to public broadcasting.

452 Electronic Newsgathering (4)

Prereq: jr. An introduction to the theory and practice of producing remote packages for television news. Students work as videographers and editors for a live, student-produced newscast carried on a local cable channel.

453 Telecommunications Law and Regulations (4)

Prereq: TCOM major or perm. Socio-political control of telecommunications; effects of law and regulations upon telecommunications policy and operation.

454 Personal Values in Telecommunications (4)

Prereq: jr. Explores the nature of personal values and surveys the values that have shaped and are shaping American culture. Examines the role of the individual within media institutions and media within American culture.

459 Audience Research (4)

Prereq: jr. Various methods, techniques, and applications of audience study in broadcasting and cable; includes study of current rating services.

461 Telecommunications Financial Management (4)

Prereq: 360 and MGT sequence. Consideration of fiscal problems in operation of radio, television, and cable industries, with special emphasis on economics and financial policies.

462 Broadcast and Cable Sales Management (4)

Prereq: 360 and MGT sequence. Consideration of policies and practices with reference to sales management in radio, television, and cable.

463 New Technology (4)

Prereq: sr. Examination of emerging technologies of telecommunications, their origins, audiences, regulations, interrelations with other media, and specific applications.

464 Cable Communications (4)

Prereq: sr. Critical examination of cable industry, including technical aspects; franchising; programming; local, state, and federal regulation; public interest service; and cable overseas.

465 Satellite Communications (4)

Prereq: sr. Role of satellites in global communications from historical, technical, regulatory, economic, political, and programmatic perspectives.

475 Politics and the Electronic Media (4)

Prereq: jr. Examines role of electronic media in election campaigns through study of campaign strategy, polling, commercial advertising, and news coverage.

479 History of Broadcasting (4)

Prereq: jr. Development of telecommunications industry from its origins to the present.

481 Women in Media (4)

Prereq: jr. Examines presentation of women in media through experiential exploration of individual attitudes and values with respect to culture, sexism, and content analysis of media.

482 Documentary Genres (4)

Prereq: jr. Explores the various genres of documentary video and film with a particular emphasis on television documentary and recent video works. Deals with such topics as historical development, factuality and truthfulness, objectivity, and ethics. Assignments and discussion are based on an extensive schedule of screenings.

485 Athens Video Works (1-5)

Prereq: perm. Colloquium for producers, directors, and managers in Athens Video Works.

486 Colloquium in Telecommunications (1-5)

Prereq: perm. Intensive study of special topics in field of telecommunications.

490 Internship in Telecommunications (8)

Prereq: sr and perm. Telecommunications experience under auspices of cooperating organization, with paper and journal submitted detailing intern's experiences. Only 4 hrs can be used to satisfy TCOM electives.

497 Independent Production Projects (1-4, max 12)

Prereq: perm and written proposal. Independent projects in audio and video production.

498 Special Problems (1-4, max 12)

Prereq: written proposal and perm.

499 Independent Readings in Telecommunications (1-4, max 12)

Prereq: written proposal and perm.

Theater (THAR)

The following courses of instruction in theater provide the student with further clarification of the curricular requirements and models outlined in the School of Theater section of College of Fine Arts under Colleges and Curricula. It must be emphasized that all theater majors maintain close contact with their assigned advisors for guidance and clarification in programming. If an advisor has not been assigned, please contact the School of Theater office on the third floor of Kantner Hall. Further information concerning course listings may be received through the School of Theater office.

090 Lunchbag Theater Seminar Series (0)

Seminar and discussion about trends in theater scholarship, production, and performance techniques. May be repeated.

101 Introduction and Orientation to the Theater as a Profession (1)

(fall) Acquaints theater majors and other interested students with professional theater. Examines varieties of theater institutions (educational, commercial, regional, etc.), role of administrator, producer, and director and historical background for state of American theater.

102 Introduction and Orientation to the Theater as a Profession (1)

(winter) Continuation of 101 and 102 with particular emphasis on training and job opportunities for actors, scene designers, costume designers, and lighting designers.

103 Introduction and Orientation to the Theater as a Profession (1)

(spring) Continuation of 101 and 102 with particular emphasis on training and job opportunities for theater managers and arts administrators (state managers, technical directors, house managers, business managers); training in other countries, history, purpose, and present function of theater unions; important theater journals and associations; and specialized training for related theater fields.

105 Practicum in Management (1-4)

Prereq: perm. Supervised lab practice in problems of theater publicity, finance, and house management. May be repeated.

110 Introduction to Performance (4)

Prereq: theater majors. Introductory study of acting and actor. Emphasizes preparation of self and text, exploration of space, development of physical and vocal freedom through improvisation and theater games.

110Y Introduction to Performance (4)

Prereq: nontheater majors. Introductory study of acting and actor. Emphasizes preparation of self and text, exploration of space, development of physical and vocal freedom through improvisation and theater games.

111 Improvisation I (2)

Prereq: theater major and perm. (winter) Introduction to the uses of improvisation as a means for exploration of self and text; also explores improvisation as an entertainment tool.

112 Introduction to Voice and Movement (2)

Prereq: perm. (spring) Study and practice of the principles of voice and movement training for the actor.

130 Introduction to Stagecraft (3)

(fall) Principles of technical production. 2 lec, 1 lab.

131 Introduction to Lighting (3)

(spring) Principles of technical production. 2 lec, 1 lab.

132 Introduction to Costume (3)

(winter) Principles of technical production. 2 lec, 1 lab.

135 Practicum in Production Design (1-4)

Prereq: perm. Supervised lab practice in design and execution of scenery, lighting, costumes, properties, and sound. May be repeated.

150 Viewing Performance (2)

Integrates classroom and student life activities at the University by combining the OU Artist Series and major productions of the schools of Comparative Arts, Music, Dance, and Theater with seminar course dealing with characteristics of the medium and artistic concerns. A two hour seminar precedes and follows each of the four performances.

170 The Theater Experience (4) (2H)

Exploration of nature and function of theater as art form through exploration of performer/space/audience interrelationship. Attendance at selected rehearsals and performances of Ohio University Theater productions augment lecture and discussion sessions. Attendance at selected professional theatrical performances may be included.

171 Play Analysis (3) (2H)

Prereq: 170. (fall) Introduction to text analysis based on premise that understanding of play's text is important step toward understanding both performance of that play and means by which that performance is created. Attendance at Ohio University Theater productions is important augmentation to class lectures and group discussions.

172 Elements of Performance (3)

Prereq: theater major. (fall) Introduction to the elements of performance that create theater and drama, including text, performer, spectacle, spectator, and performance space. The emphasis is on the analysis of the text, how the text works as part of the performance, and how the text is brought to life in performance. Attendance at OU Theater productions is required.

179 Theater Arts & Drama Workshop I (2)

Prereq: 1st yr th arts and drama majors; perm. A workshop designed specifically for majors in theater arts and drama that brings together the wide variety of theater interests of the theater arts and drama students. The topic in this first of the three-year sequence is the relationship between theater space and performance.

201 Play Production (4)

A study of all the areas associated with the production of a play. Students have the opportunity to apply classroom theory in a practical production environment.

205 Practicum in Management (1-4)

Prereq: perm. Supervised lab practice in problems of theater publicity, finance, and house management. May be repeated.

210 Acting I (4)

Prereq: majors and perm. (fall) Principles and techniques of acting with major emphasis on developing trust and freedom. Warm-up techniques, theater games, improvisation, monologue exercises, and preliminary scoring techniques underline this introduction to the work of actor.

210Y Acting I (4)

Prereq: 110Y; nonmajors. Study of acting and the actor from the point of view of strengthening concentration and commitment to performance tasks; introduces principles of text and character scoring.

211 Acting II (4)

Prereq: majors and perm. (winter, spring) Continuation of training started in 210, with addition of more detailed character development, scoring techniques, and ensemble considerations through duet scene work.

211Y Acting II (4)

Prereq: 210Y; nonmajors. Continuation of work begun in 210Y with special application to scene work.

212 Acting III (4)

Prereq: majors and perm. (spring) For the serious acting student, this course completes the second year of the sequential training program. Primary emphasis to apply techniques learned in 210 and 211 to more lengthy and complicated scene structures. Long duet scenes and multi-character scenes or short plays used for study and performance. Grad directors and public performances are frequently incorporated into final work in this course.

212Y Acting III (4)

Prereq: 211Y; nonmajors. Application of principles and techniques learned in earlier classes to a full text leading to public performance.

215 Practicum in Acting (1-4)

Prereq: aud, soph. Supervised lab practice in rehearsal and public performance of roles. May be repeated.

216A Body Training (2)

Prereq: perm. (fall) Individual and group instruction in basic elements of body training for the stage.

216B Body Training (2)

Prereq: 216A. (winter) Continuation of 216A; see 216A for description; must be taken in sequence.

216C Body Training (2)

Prereq: 216B. (spring) Continuation of 216A-216B; see 216A for description; must be taken in sequence.

217A Voice Training (2)

Prereq: perm. (fall) Individual and group instruction in basic elements of vocal training for the stage.

217B Voice Training (2)

Prereq: 217A. (winter) Continuation of 217A; see 217A for description; must be taken in sequence.

217C Voice Training (2)

Prereq: 217B. (spring) Continuation of 217A-217B; see 217A for description; must be taken in sequence.

218A Voice/Speech Training for Broadcasters: Lesaac Approach (2)

(fall, winter) Group and individual instruction in basic elements of vocal training through Lesaac system.

218B Voice/Speech Training for Broadcasters: Lesaac Approach (2)

Prereq: 218A. (winter, spring) Continuation of 218A; see 218A for description; must be taken in sequence.

218C Voice/Speech Training for Broadcasters: Lesaac Approach (2)

Prereq: 218B. (spring) Continuation of 218A-218B; see 218A for description; must be taken in sequence.

230 Stagecraft: Scenery (3)

Prereq: 130. (fall) Procedures and practice in theatrical production; practical experience.

231 Stagecraft: Lighting (3)

Prereq: 131. (winter) Procedures and practice in theatrical production; practical experience.

232 Stagecraft: Costume (3)

Prereq: 132. (spring) Procedures and practices in theatrical production; practical experience.

233 Theatrical Design Skills (3)

Prereq: 130, 131, 132. (fall) Drafting, perspective, color, and rendering as applied to production design.

235 Practicum in Production Design (1-4)

Prereq: perm. Supervised lab practice in design and execution of scenery, lighting, costumes, properties, and sound. May be repeated.

237 Basic Makeup (1)

Theory and practice of stage makeup. 1 lec, 1 lab.

270 Theater History I (4)

(fall) Development of theater and drama in prehistoric, Greek, and Roman periods.

271 Theater History II (4) (2H)

(winter) Development of theater and drama in medieval and Renaissance periods.

272 Theater History III (4) (2H)

(spring) Development of theater and drama from Renaissance to modern.

279 Theater Arts and Drama Workshop II (2)

Prereq: 2nd yr th arts and drama majors; perm. Continuation of process work begun in the first year of training. The topic in this second year is an in-depth, performance-oriented study of a specific script.

297T Theater Tutorial (1-15)

Prereq: perm. Subject matter of course arranged by tutorial student in consultation with School of Theater tutorial advisor.

298T Theater Tutorial (1-15)

See description for 297T

299T Theater Tutorial (1-15)

See description for 297T

305 Practicum in Management (1-4)

Prereq: perm. Supervised lab practice in problems of theater publicity, marketing, and house management. May be repeated.

310 Audition Technique and Practice (3)

Prereq: 3rd yr acting major; perm. (fall) Preparation of audition materials, experience in various audition spaces, development of techniques for field reading, rehearsal class, and the development of personal audition monologues and scene experience.

311 Improvisation II (3)

Prereq: 212 or perm. (winter) Exploration of non-scripted performance modes and development of acting skills through theater games.

312 Scene Study I (2-4)

Prereq: 3rd yr acting major and perm. (spring) Extension of rehearsal/performance experience in 310 and 311. Advanced undergrad rehearses and performs in scenes directed by 2nd-yr grad directors and selected to enhance dramatic range.

315 Practicum in Acting (1-4)

Prereq: aud, jr. Supervised lab practice in rehearsal and public performance of roles. May be repeated.

316A Stage Movement I (3)

Prereq: 216C; theater major. (fall) Principles and techniques of expressive movement.

316B Stage Movement II (3)

Prereq: 316A; theater majors only. (winter) Principles and techniques of expressive movement.

316C Stage Movement III (3)

Prereq: 316B; theater majors only. (spring) Principles and techniques of expressive movement.

317A Voice for the Stage I (3)

Prereq: 217C. (fall) Principles and practice in vocal action for stage.

317B Voice for the Stage II (3)

Prereq: 217C. (fall) Principles and practice in vocal action for stage.

317C Voice for the Stage III (3)

Prereq: 317B. (spring) Principles and practice in vocal action for stage.

320 Directing I (4)

Prereq: 211. Principles and practices of directing for stage.

330 Elements of Technical Direction (4)

Prereq: perm. Introduces technical theater students to the mechanics of structures, as well as the management skills related to the work of the contemporary technical director.

331 Theory of Lighting (4)

Prereq: 231 and perm. (fall) Creative processes in design and execution of lighting for proscenium and non-proscenium forms.

332 Costume Design I (4)

Prereq: 232, 338, or perm. (fall) Application of principles of design to stage costuming, with emphasis on fabrics, figure drawing, and characterization.

333 Fundamentals of Scene Painting (1-4)

Basic materials, techniques, and theory of painting for the stage.

334 Scene Design (4)

Prereq: 233. (winter) Principles and projects in scene design as part of production design.

335 Practicum in Production Design (1-4)

Prereq: perm. Supervised lab practice in design and execution of scenery, lighting, costumes, properties, and sound. May be repeated.

336 Props and Crafts Techniques (4)

Prereq: perm. An introduction to theatrical crafts, casting, and soft sculptural construction techniques and materials, as well as painting and decorative techniques.

337 Advanced Makeup (3)

Prereq: 237. (fall odd years) Corrective, 3-dimensional and non-realistic makeup; rubber prosthesis; character analysis. 1 lec, 2 lab.

338 History of Costume (4)

Prereq: 232 or perm. (fall) Development of dress and influence of cultural factors from Egyptian and Asian civilizations including fabrics, accessories, and ornamentation.

345 Ohio Valley Summer Theater Practicum (1-6)

Prereq: perm. Supervised practice and experimentation in the company operation of a community theater performance project. May be repeated for credit.

350 Playwriting (3)

Prereq: perm. Theory and practice of dramatic writing.

379 Theater Arts & Drama Workshop (2)

Prereq: 3rd yr th arts and drama majors, perm. Continued exploration in areas of specific interest to the theater arts & drama major, with development of individualized courses of study and preparation of the fourth year of study. The topic of study is the relationship of theater to the other arts.

397T Theater Tutorial (1-15)

(fall) Junior-level tutorial class for students in the Honors Tutorial College.

398T Theater Tutorial (1-15)

(winter) See description for 397T.

399T Theater Tutorial (1-15)

(spring) See description for 397T.

402 Theater Management (4)

(fall) Procedures and practices in management of theater, including theater publicity, marketing, finance, ticket office, and house management.

405 Practicum in Management (1-4)

Prereq: perm. Supervised lab practice in problems of theater publicity, finance, and house management.

409 Independent Studies in Administration (1-6)

Prereq: perm and independent study form. Allows advanced theater major to develop study project in aspects and problems of theater administration beyond normal course offerings.

410 Scene Study II (2-4)

Prereq: 4th year acting major; perm. (fall) A performance course designed to provide advanced actor training majors with an opportunity to do detailed work on character and rehearsal processes.

411 Acting IV (3)

Prereq: 4th year acting major, perm. (winter) Exploration of specific problems in acting through use of exercises, monologues, and scenes.

412 Television Performance (3)

Prereq: perm. Performance experience in television acting with special emphasis on studio policies and operations, relationship of talent to the whole process of television production, analysis of camera performance techniques, and the production of scene work. This course is offered in conjunction with TCOM 419.

415 Practicum in Acting (1-4)

Prereq: aud, sr. May be repeated. Supervised lab practice in rehearsal and public performance of roles.

416 Advanced Stage Movement (2)

Prereq: 316C and perm. (winter) Connection and application of stage movement to role or roles in period plays; involves seeking out of tempos and rhythms of character and examining how they differ in various periods.

417 Advanced Voice Training: Dialects and Scansion(2)

Prereq: 317A, B, C. (spring) Introduction to and experience in scanning essentials of versification as it particularly applies to reading of dramatic lines. Introduction to study of dialects through use of study tapes and other source materials.

419 Independent Studies in Acting (1-6)

Prereq: perm and independent study form. Advanced theater major can develop study project in aspects and problems of acting beyond normal course offerings.

420 Directing II (4)

Prereq: 320 and perm. Practical experience in directing for stage.

425 Practicum-Directing (1-4)

Prereq: perm, maximum 12 hrs.

426 Stage Management (3)

Prereq: perm. (fall) Theoretical course in techniques and methods of professional stage management.

427 Practicum in Stage Management (2-4)

Prereq: 426 and perm. Supervised practical experience in stage managing of university theater or related production.

429 Independent Studies in Directing (1-6)
Prereq: perm and independent study form. Advanced theater major can develop study project in aspects and problems of directing beyond normal course offerings.

430 Advanced Stagecraft (4)

Prereq: 230, 231, 232. (fall) Advanced problems of scenery construction, handling, and rigging.

431 Lighting Design II (4)

Prereq: 131, 231, 331. Provides the student opportunities for preparation and critique of lighting design projects in a variety of theatrical contexts.

432 Costume Design II (4)

Prereq: 332 (winter) Application of principles of design to stage costuming, with emphasis on fabrics, figure drawing, and characterization.

434 Scene Design II (4)

Prereq: 334. (fall) Provides student with a series of design projects with an emphasis on portfolio preparation.

435 Practicum in Production Design (1-4)

Prereq: perm. Supervised lab practice in design and execution of scenery, lighting, costumes, properties, and sound.

436A Model Construction for the Scene Designer (4, max 8)

Prereq: perm. Introduction to the materials and techniques of model construction for the stage, including 1/4" and 1/2" scale models—experimental, working, and presentation models.

436B Drafting for the Stage (4, max 8)

Prereq: perm. Fundamental and advanced problems of drafting for the stage, including plans, sections, front elevations, rear elevations, and details.

436F Properties Construction and Organization for the Stage (4)

Prereq: perm. To introduce the student to the organizational skills and craft techniques required to hold a job in a professional prop shop.

437A Sound Design I (4)

Prereq: perm. Principles and functions of sound design for the theater.

437B Sound Production (4)

Prereq: perm. Principles, characteristics, and techniques in the use of sound equipment for the theater.

438A Historical Bases of Design I (4)

Prereq: major or perm. Survey of research techniques in history, the arts, and period "style" from Antiquity to Early Renaissance in Western Civilizations for the purpose of theatrical production.

438B Historical Bases of Design II (4)

Prereq: major or perm. Continuation of 438A, covering the period from the High Renaissance to the present.

439 Independent Studies in Production Design (1-6)

Prereq: perm and independent study form. Advanced theater major develops study project in aspects and problems of production design beyond normal course offerings.

440 Professional Theater Internship (1-16)

Prereq: perm.

450 Advanced Playwriting (3)

Prereq: 350 or perm. Special problems in writing long play.

451 Playwrights Workshop (3, max 9)

Prereq: perm. (winter, spring) Practical workshop experience for playwrights, directors, and actors with new scripts. May be repeated.

459 Independent Studies in Playwriting (1-6)

Prereq: perm and independent study form. Advanced theater major develops study project in aspects and problems of playwriting beyond normal course offerings.

465 Practicum in Directing (1-4)

Prereq: perm. Supervised lab practice in planning and executing dramatic production.

470 Tragedy (4)

Prereq: jr or sr. Study of tragic genre through both plays and critical and theoretical documents.

471 Comedy (4)

Prereq: jr or sr. Study of comic genre through both plays and critical and theoretical documents.

472 Forms of Drama (4)

Prereq: jr or sr. Study of genres of melodrama, farce, and tragicomedies through examination of plays and critical and theoretical documents.

477 American Theater and Drama (4)

Prereq: jr or sr. Study of significant movements and major playwrights of the American theater, with an emphasis on the 20th century.

479 Independent Studies in Theater History and Criticism (1-6)

Prereq: perm and independent study form. Advanced theater major develops study project in aspects and problems of theater history and criticism beyond normal course offerings.

497T Theater Tutorial (1-15)

(fall) Senior level tutorial class in theater subjects for students in the Honors Tutorial College.

498T Theater Tutorial (1-15)

(winter) See description for 497T.

499T Honors Tutorial (1-15)

(spring) See description for 497T.

Tier III (T3)

Tier III, the final element of the General Education Requirements, is a senior-level requirement for students who entered the University in September 1982 or after. (Transfer students should consult their college office to learn whether they have a Tier III requirement.)

Two key ideas spurred the thinking that went into the creation of Tier III. One was structural, the other theoretical. The framers of the General Education Requirements believed that a solid and meaningful program of liberal studies should not be confined to basic courses taken largely during the freshman year, but should extend throughout an undergraduate's experience, enriching work in the upper division. The junior-level composition requirement, as well as Tier III, is a reflection of this conviction. Secondly, while there was wide agreement that work in the major was excellent for developing in students the powers of analysis—the ability to break things into smaller and smaller parts for detailed inspection and understanding—we realized that our curriculum offered few opportunities for students to develop a capacity for synthesis.

That capacity was defined as the ability to weave many complex strands into a fabric of definable issues, patterns, and topics. We wanted to nurture in our students the ability to understand that problems and issues are often only successfully approached from a variety of perspectives. To contribute to the preparation of men and women capable of handling complex intellectual and social issues, we needed to bring them together in courses specifically designed to confront broad topics from multiple perspectives.

401A Images of Blacks in the American Mind (4)

Prereq: sr or perm. Examines the nature, the sources, and the effects of ideas and attitudes about Americans of African descent that have pervaded American culture. Focuses upon images of blacks as bucks, coons, buffoons, improvident children, mammies, devoted Christians, etc., with a view of showing how widespread and deeply embedded these images have been in American culture and how they contributed to slavery and the subsequent exclusion of blacks from the mainstream of American life. Interdisciplinary in nature, the course uses the approaches and materials of a variety of fields of study—literature, art, film, history, the natural sciences, social sciences, popular culture.

401B American Experience Through Novels and Films (4)

Prereq: sr. Offers interdisciplinary perspective on aspects of American cultural experience and awareness of nation's fictional and cinematic contributions. Works of fiction (with occasional plays) and their film adaptations are studied for purpose of exploring issues, such as frontier, American dream, black/white relations, individualism versus collectivism, heroism, and feminism, pertinent to understanding of American experience.

401C Race and Ethnicity (4)

Prereq: sr, 8 hrs social science. Review of various theories of race. Critique of diverse definitions of ethnic groups. Due attention given to problem of ethnicity in international arena. Cross-national comparisons made of ethnic processes in developing countries, vis à vis ethnic processes in U.S., Western Europe, and Eastern Europe.

402A The Human Life Cycle (4)

Prereq: sr, perm. Four stages of human life cycle—creation, transformation, sexuality, death—will be examined. Some biological characteristics of each stage will be studied. Social and cultural response to the life stages through essays, art, and poetry will be examined.

402B Introduction to Alternative Agriculture (4)

Prereq: sr and one PBIO course. Approaches agriculture through three disciplines: history, health, and environmental and plant biology, particularly as latter relates to growth of plants in soil. Historical dev. of current agricultural problems is examined, and practical, biologically based solutions are proposed. The relationship between soil infertility and the health and disease of animals and humans is also examined. Problems relating to Third World cultures are emphasized.

403A The Limits to World Growth: Can Science Provide Solutions? (4)

Prereq: sr, one yr physical sciences or perm. Examines problems concerning the future growth of the world and the finite limits which may be imposed by depletion of nonrenewable resources. Discussion includes energy, population, water resources, the food chain, pollution, and mineral resources. Focuses on the effects of today's science and technology in solving or creating future problems, and on the possibilities for future technology. Intended to broaden the outlook of both science and nonscience majors.

406A Peace Corps Volunteers and Third-World Development (4)

Prereq: sr or perm; Tier II. Focuses on traditional societies throughout the world and on the interaction between people in those societies and "outsiders" from richer communities. Included are presentations by returned U.S. Peace Corps volunteers. Traditional societies, the impact on those societies of rapid social and economic change, challenges of intercultural communication, problems of project administration, and the ecological and environmental results of interaction.

407A Darwin Among the Poets: England in 1859 (4)

Prereq: sr and one course in English, political science, biology, or history. 1859 saw publication in England of an unusually large number of major works in various fields. This course examines climate of ideas that produced these works, the works themselves, and ideas and issues that resulted from them. Deals with Victorian (and modern) issues that touch on literature, science, politics, history, sociology, and religion.

407B The Autobiographical Quest (4)

Prereq: sr and one 200-level English course or perm (not open to students who have had 414A). Study of selected autobiographies with particular emphasis on individual's quest for meaning or value in course of life. Works examined and compared from various perspectives—literary, philosophical, religious, psychological, and social—as appropriate.

407C The Existential Vision: Philosophy, Literature, and Film (4)

Prereq: sr and one course in philosophy, literature, or film. Seeks to synthesize contemporary philosophy, literature, and film by studying themes introduced by existential philosophers but also treated by post-WW II writers and filmmakers.

407E American Indian Cultures Through Literature (4)

Prereq: sr. Offers students opportunity to explore U.S. history from perspective of Native American scholars as well as traditional historians, anthropologists, and literary scholars.

407F Myth Today (4)

Prereq: sr. First 6 weeks devoted to readings and discussions of modern theories of myth, ending with Roland Barthes' famous *Mythologies* (1957). In second phase, students draw together their notes and comments on theory of myth, according to their interests or special subject areas.

407H Shakespeare and Psychology (4)

Prereq: sr, ENG 301 or 303 or PSY 233. Examines Shakespeare's delineation of character psychodynamics and, at the same time, examines how psychological interpretation makes plain or illuminates Shakespeare's characters. Course is part of larger attempt to explore ways in which literary and psychological interpretation complement each other.

407L The Literacy Crisis: Origins and Effects (4)

Prereq: sr, perm. Are the literacy skills acquired by students in schools in the United States adequate to the demands made by industry and society? Are the legislative and educational reforms designed to raise those levels likely to succeed or fail? This course will attempt to answer these questions. Only at OU-Eastern Campus, St. Clairsville.

408A American Conservation Movement (4)

Prereq: sr. 4 hrs natural science. Topical survey of schools of thought, themes, and specific issues in American conservation in past century. 19th-century transcendental thinkers are baseline for survey. Contemporary environmental issues and debates provide capstone for course.

408B Landscape and Culture (4)

Prereq: sr. Considers Anglo-American landscape as key to understanding Anglo-American culture and its myths (e.g., frontier) and stereotypes (e.g., individualism).

410A Philosophies of History (5)

Prereq: sr; one upper-level course in history or philosophy. Study and discussion of different philosophies of history dating from ancient to modern period. Analysis of how thinkers have taken empirical data of history and shaped them into metaphysical form.

410B The Age of Michelangelo (4)

Prereq: sr. 2 courses in one of following areas: European history, philosophy, art history, English literature. Michelangelo's life (1475-1564) spans two most significant movements in early modern European history: Renaissance and Reformation. All of his work, artistic and literary, reflects these movements. By studying his life and work, one is able to acquire richer and more lasting insight into and appreciation of Renaissance and Reformation. Deals with philosophy, theology, architecture, art history, literature, and history.

410C The Folklore of Espionage: The Spy in Novel, Film, and History (4)

Prereq: sr, two Tier II courses in social sciences or humanities. Presents the historical treatment of intelligence operations and espionage which have been depicted in literature and on film during the 20th century. Major themes include "The Spy as Hero", "The Spy as Anti-Hero", "Moles", "Double Agents in Espionage", "The Ambiguities of Cold War Espionage", "Assassination", "Espionage as Comedy", and "Games Intelligence Services Play". Five novels and five films that deal with these and other themes are examined.

410E Slavery 1400 to Present (4)

Prereq: sr, Tier II social sciences course. History of slavery and slave trade from 1400 to present. Different forms of slavery compared, showing widely divergent roles of slaves, from high officials to field hands. Changes in systems through time and reason for abolition of slavery examined. Modern forms of bondage (peonage, forced labor, child labor, prostitution, illegal immigrant labor) and activities of United Nations Working Group on Slavery discussed.

411A Linguistics and Semiotics: The Interpretation of Cultures as Texts (4)

Prereq: sr, 270 or perm. Descriptive and functional linguistic approaches are applied to analysis of cultural phenomena and interpretation of their meanings for present and past societies.

411B Literacy Across Cultures (4)

Prereq: sr and LING 270 or 350, or perm. Examines the consequences of literacy from social, cultural, and cognitive perspectives. Major topics are (1) oral vs. written communication; (2) the evolution of writing; (3) different writing systems: linguistic properties and information processing; and (4) literacy in its social context.

411C Language and Mind (4)

Prereq: sr or perm; one 300-level LING, PHIL, PSY, or ANTH. Evidence drawn from Noam Chomsky's theory of language will be brought to bear on the question of the place of the mind/brain in the natural world. Chomsky's claims touch on issues of central importance for linguistics, psychology, philosophy, and anthropology, and have had a decided impact on all of these fields over the past 30 years.

413A Major French Cultural Contributions (4)

Prereq: sr. Four major French contributions to Western culture studied: Gothic architecture, classical literature, Rousseau's *Confessions*, and impressionist painting. Although each individual or movement studied in historical context, primary emphasis placed on nature of cultural innovations themselves—structural, technical, and aesthetic in Gothic architecture; psychological, literary, and philosophical in Moliere, Racine, Pascal, and Rousseau; pictorial in impressionism.

413B Science, Culture, and Human Values (4)

Prereq: sr and completion of Tier II in humanities and natural sciences. Examines nature of art and scientific inquiry by means of various 20-century attempts at integration.

413C Johann Wolfgang von Goethe: Scientist and Man of Letters (4)

Prereq: sr or perm. Examines interrelationship between principles adduced in Goethe's studies of natural phenomena and parallel forms and concepts in his works of literary art.

413D Irony in Literature and Society (4)

Prereq: sr or perm, one Tier II course in literature, social sciences, history of theater, or film. Exploration of ironic elements in literature, media, and society, with special attention to differences between ironic structures created through language and those found in visual arts and in music.

413E Realism, Naturalism, and Impressionism in French Literature and Painting (4)

Prereq: sr. Analysis and comparison of major 19th-century French realistic, naturalistic, and impressionistic novels and paintings with view toward deciding degree to which one may draw valid parallels between different art forms.

414A The Autobiographical Quest (4)

Prereq: sr, 4 hrs in philosophy, or perm; not open to those who have had 407B. Study of selected autobiographies with particular emphasis on individual's quest for meaning or value in course of life. Works examined and compared from various perspectives—literary, philosophical, religious, psychological, social—as appropriate.

414B Liability and Responsibility in the Law (5)

Prereq: sr and PHIL 240, 330, 430, 440, or 441, or two courses above 200 level in HIST, POLS, SOC, or PSY. Study of some of major problematic areas in ascription of legal liability and responsibility. Chief areas of concern are: (1) grounds on which courts determine who or what is causally responsible for what occurred; (2) extent to which finding of legal responsibility should take account of intentions, knowledge, recklessness, etc., of accused; and (3) whether only sane individuals should be held legally responsible.

414C Semiotics in Communication (5)

Prereq: sr. Semiotics is concerned with systems of signs, their interrelationships, and the images used to transmit such systems. This course introduces students to structures and processes of communication through the use of semiotics.

414D History and Philosophy of Genetics (5)

Prereq: sr or perm; BIOL 101, BIOS 100, 103, 150, or PBIOL 110. Genetics has played an important role in the development of medicine. Genetics has also been used in attempts to better society. To get a perspective on the ethical, social, and scientific issues raised by the development of genetics, we will discuss such topics as in vitro fertilization, surrogate motherhood, recombinant DNA, genetic counseling, the history of eugenics, and the attempt to formulate a logic for the scientific method.

414E Philosophy, Science, and World Views (5)

Prereq: sr, one course in physics or biological sciences above 200 and one course in philosophy. Transformation of ideas from one discipline to another, especially transformation of ideas from philosophy to science and from science to generalized world view. Special emphasis on two case studies on moral and social values derived from Newtonian mechanism and Darwin's theory of evolution with applications to recent religious and metaphysical implications drawn from new physics of Einstein and Heisenberg.

415A Entropy and Human Activity (4)

Prereq: sr. Energy is conserved but most physical processes involve transformation of available energy into forms not as readily available. Jeremy Rifkin claims that civilized humanity should reorder its priorities so that increases of entropy, which characterize such transformations, should be minimized. Students discuss whether broad generalization of such a principle makes sense.

416B Politics and Literature in the Soviet Union (5)

Prereq: sr. Uses Soviet literature (novels, short stories, plays, and poetry in translation) as means to gain fuller understanding of Soviet politics, history, and society; and to gain greater appreciation of impact of political ideology and political controls on development of literature in general and particularly in Soviet context.

416D Human Values in a Technocratic Age (4)

Prereq: sr. Examines relationship between scientific inquiry, technology, and values. What impact has ascendancy of scientific ethos had on values? What is the relationship between scientific inquiry and technology? Should scientific inquiry and technological development be subject to ethical constraints? Traces historical impact of science and technology on Western culture.

417A Cognitive Processes in Writing (4)

Prereq: sr. Multidisciplinary examination of mental processes involved in creating written communication. Students examine writers and their works from standpoints of cognitive psychology and communication theory. Opportunities are given both to observe and to conduct experiments in writing process by interview, protocol, and causal methods, as well as other techniques.

419A Third-World Development

Prereq: sr, 20 hrs in social sciences. Focuses on various, often contrasting, approaches to national development. Discusses ways in which basic needs such as agriculture/rural development, education, housing, health, and urbanization are met, discusses these approaches within context of ethical values. Countries discussed may include China, Brazil, Cuba, Nicaragua, Tanzania, South Korea, Taiwan, and Bangladesh.

419B America in Decline? (4)

Prereq: sr; completion of Tier II; 20 hrs of social sciences. Critically reviews dominant post-WW II American ideology of economic, political, and cultural growth and recent emergence of new set of images of America in decline. Students also asked to consider future effects American decline might have on (1) social structure, politics, and culture; (2) occupations and professions; and (3) their own personal lives.

419C New Age Thought (4)

Prereq: sr; completion of Tier I and Tier II with natural, applied, or social sciences represented in Tier II. An examination of the foundations for conventional, rational, and scientific understanding of the world; followed by a survey of knowledge accumulating in the 20th century which serves as basis for alternative foundations.

419D Emotion, Power, and Gender (4)

Prereq: sr or perm; ANTH 101, SOC 101, or PSY 101. Examines the role played by emotion in our private as well as our public lives. A review of various theories regarding the nature of emotion will be presented, followed by discussions of the nature, acquisition, and maintenance of power as well as the uses of power and the relationships between power and emotion. The last section of this course is concerned with the relationship between gender and power, gender and emotion, and how these two broad areas dovetail, providing an explanation of the role of emotion in our everyday public and private lives.

419E Nature of War (4)

Prereq: sr, SOC 101 or perm. Using a broad social science perspective, the course will examine the causes, consequences, and nature of war and various proposals to prevent war. Contributions of social scientists, philosophers, writers, and professional soldiers to an understanding of the social phenomena of war and peace will be reviewed and assessed.

420A Microbes and Human Destiny (4)

Prereq: sr, one biology course. Examines examples of power and influence of invisible microbes in human history and present-day problems. Microbes have determined victors in individual battles, have contributed to outcomes of world wars, have affected demography, witch hunts, mores, fashion, arts, economy, and food production.

420B Evolution and the Challenge of Creationism (4)

Prereq: sr. Examines two ways of knowing—science and religion—as exemplified in controversy on evolution and creationism. Claims and evidence for evolution and special creation, issues and strategies of conflict, arenas of confrontation, and implications of outcomes for both science and theology are discussed.

420C Biology of Human Social Behavior (5)

Prereq: sr or perm; 1 BIOL course; 1 ANTH, SOC or PSY. Evolutionary perspectives on human social behavior are examined in light of data from the social sciences. Behaviors such as bonding and communication are seen to arise from both biological bases and social experience.

432A Seminar in Negotiation and Conflict Resolution (4)

Prereq: sr. Examines nature of conflict from systems point of view. Presents theories and techniques of negotiation as method of resolving or managing conflict. Examples of successful and unsuccessful negotiations studied. Examples drawn from many areas of conflict, including purchasing and selling, marriage dissolution, labor contracts, hostage negotiations, plea bargaining, and international peace and arms limitation talks. Differences and similarities at various levels of negotiation are noted. Concludes with mock negotiation.

432B Working in the U.S.A. (4)

Prereq: sr or perm. Provides students with an understanding of the social, cultural, economic, psychological, and political nature of work in the U.S.; an appreciation of individual reactions to work, as well as the resulting productivity in modern organizations; and a basis for understanding the employment relationships in modern organizations. Focuses on the institution as well as the impact of institutional policies on individual work behaviors and organizational productivity

435A Communication and Racism (4)

Prereq: sr and 18 hrs social sciences. Focuses on how racial prejudices are communicated and shared within different racial groups; analyzes how people of specific racial groups perceive and talk about members of other racial groups. Conflict theory and research is studied to gain insight into how interracial conflicts are expressed and managed.

446C Disabilities as Portrayed in the Media (4)

Prereq: sr, perm, and Tier II social sciences. Examines the evolution of the media's portrayal of persons with disabilities. Specifically, by applying relevant interdisciplinary theories and perspectives, selected films and television programs will be analyzed to determine the extent and manner in which selected media have impacted on society's perceptions and attitudes.

450A Environmental Assessments (5)

Prereq: sr. Acquaints student with how to determine whether emissions to air, water, or land pose danger to people or environment. Presents Environmental Protection Agency's environmental assessment procedure and discusses its strengths and weaknesses. Discusses why this new, radically different procedure is needed. Covers economic, physiological, social, and political implications of environmental assessment.

450B Technology and Culture (4)

Prereq: sr. Intended to provide a synthesis experience for seniors on the topic of engineering and technology and their interactions with and effects on society. Students will have an opportunity to stand outside their particular major and to interact with other specialists to see what they can do to provide clarity of purpose and direction to the technological questions facing humankind.

453A The Art of Modeling by Computer (4)

Prereq: sr or perm. Examines techniques of modeling of social-economic-technical systems. Small models developed on topics related to student backgrounds. Large existing models examined to see structure, assumptions, and sensitivity to changing conditions. Computer techniques included.

463A Theater and Architecture (4)

Prereq: sr, Tier II completion. Examines the historical and contemporary interaction of two art forms, theater and architecture, in the design and construction of theaters. Considers the requirements and demands of theater and architecture and analyzes their synthesis in creating actual theater structures.

464A Cultural Traditions and the Arts (4)

Prereq: sr, (fall) Principal styles of Western art as mirrored in selected masterpieces of architecture, sculpture, painting, music, and literature. Specific works of art examined in relationship to one another and against background of ideas that animated life of their times (Greek, Roman, Medieval).

464B Cultural Traditions and the Arts (4)

Prereq: sr, (winter) Principal styles of Western art as mirrored in selected masterpieces of architecture, sculpture, painting, music, and literature. Specific works of art examined in relationship to one another and against background of ideas that animated life of their times (Renaissance, Baroque).

464C Cultural Traditions and the Arts (4)

Prereq: sr, (spring) Principal styles of Western art as mirrored in selected masterpieces of architecture, sculpture, painting, music, and literature. Specific works of art examined in relationship to one another and against background of ideas that animated life of their times (19th and 20th centuries).

470A Social Crises in Medicine (4)

Prereq: sr. Virtually every medical advance is accompanied by complex set of poorly understood ethical, legal, political, and economic considerations. Course provides students with opportunity to explore in depth all dimensions of crisis that have arisen involving practice of medicine or provision of health care.

470B Sport Aesthetics (4)

Prereq: sr or perm. An analysis of the aesthetic in sport by viewing various works of art when sport serves as the subject of the artist and by observing sport when sport is the medium for creating aesthetic expression.

470C Chemicals: How They Affect Your Health and Environment (4)

Prereq: sr or perm. Topics presented will include atomic and molecular structure, states of matter, acids and bases, polymers, corrosion, health-related issues (radon, formaldehyde, pesticides, asbestos), and global issues (ozone, greenhouse effect). Topics discussed with regard to their personal and environmental impacts.

472A Self, Aging, and Society (4)

Prereq: sr. Interrelates knowledge of aging, modes of thought, and values to one another and to practical problems in life, society and culture, and world of work. Focuses primarily on biological, psychological, sociological, health care, and public policy aspects of gerontology. Designed to analyze in an interdisciplinary way basic assumptions of aging, process of theory construction, interrelationship of theory and research, procedures of empirical investigation, implications of older age structure for American society, and problems of aged in American society.

472B Food Problems and Third World Development (4)

Prereq: sr. Provides students with knowledge and understanding of various factors involved in struggle for achieving food security in Third World countries. Focuses on political, economic, educational, health, environmental, social, and cultural factors and how they impact on food security. Also focuses on AIDS and how it has affected agricultural production, marketing, and distribution. Diversities among Third World countries, policy changes, and strategies in relation to world food security also explored.

472C Women and Leadership: Roles and Responsibilities (4)

Prereq: sr or perm; PSY 101 or SOC 101. Analysis of women in leadership roles in relation to historical, sociological, psychological, and economic perspectives. Strategies for developing leadership skills integrated throughout the course.

472D Thanatology (4)

Prereq: sr or perm; SOC 101 and PSY 101. Synthesizes components inherent in current philosophical and religious views and beliefs, psychological and clinical dimensions, sociological factors, and ethical and moral issues of death in context of defining and coping with death.

474A Brainscape: The Integrative Brain (4)

Prereq: sr or perm. Interdisciplinary course that guides students to explore functions of the human brain. Integrates information on such topics as movement, control, and awareness; sensorimotor integration; language development and use; feelings, emotions, and drives; left brain, right brain; neural rhythmicity; levels of consciousness; and states of mind. Using this integrative information base, students explore and discuss mechanisms and evidences of such human attributes as thought and intellect, learning and memory, play, reason, and decision making.

480B Two Decades in Confrontation: The Art and the History of the 1950s and the 1960s (4)

Prereq: sr. Taught by professor of history and professor of art. Opportunity for majors in arts and in social sciences to search for motivations and values in recent U.S. history by reviewing arts and political, social, and scientific events of two postwar decades, 1950s and 1960s.

480C Unity and Variety in Biology and Literature (4)

Prereq: sr or perm; Tier II coursework in environmental and plant biology or English. Unity and variety between and within literature and biology studied primarily by critically examining selected works of Charles Darwin, English naturalist, and Walt Whitman, American poet. Thoughts of these two men analyzed by comparing views on selected set of topics: origins of life and of humans, evolution, nature, and influence of environment. Focus is primarily on these two figures: other writers such as Chardin and Thoreau may be treated briefly.

480D Emergence of a Science (4)

Prereq: sr, one course in science or philosophy. For both science and nonscience majors interested in historical and philosophical influences that led to present concept of chemistry as science. Chronological survey, largely nontechnical, of developments in chemistry from Thales to Russell. Not acceptable for 400-level requirement in B.S. chemistry degree program.

480E War: The Human Response (4)

Prereq: sr; 12 hrs in psychology or English. Human response to war considered in terms of myths of heroism and masculinity, nature of conflict, use and justification of aggression, perception of enemy, effects on both victims and victimizers, and irony of war. Human response examined both from subjective perspective of creators of literature of war and from objective perspective of psychologists who study individual and group behavior in times of conflict.

480F Life Sciences, Communication, and Media (5)

Prereq: sr; two qtrs of biology. Integration of scientific information with written and verbal communication skills. Students will be exposed to recent advances in life sciences and have the opportunity to analyze and write on these advances.

480G Schooling and the State (4)

Prereq: sr, Tier II course in philosophy. Critical inquiry into how education, through citizenship preparation, has been seen by liberal, conservative, and socialist philosophers as resolving social crises. Particular attention to eras of extreme social crisis such as Great Depression and recent decades. Use of popular literature and source documents to relate educational prescriptions to current topics in education.

480K Meaning in Music (4)

Prereq: sr. Survey of recent and historical attempts to explain relationships between musical stimuli and their musical or extramusical referents. Representative musical works examined in light of these theories.

480L The Nuclear Era (5)

Prereq: sr or perm. Concentrates on historical, political, and scientific implications of development and evolution of nuclear weapons. Addresses, among other issues, such questions as why nuclear weapons were developed, scientific principles upon which they work and their physical effects, successes and failures of international efforts to control them, and their impact upon contemporary political, military, and ethical issues.

480M Gandhi and King: Nonviolence as Philosophy and Strategy (5)

Prereq: sr. An interdisciplinary analysis of nonviolence.

480N Who Controls Science (4)

Prereq: sr. Uses specific events and questions in the history of scientific research to explore cultural, industrial, and political attempts to direct or suppress scientific inquiry and/or the dissemination of scientific information.

480P Ethical Issues in the Human Services (4)

Prereq: sr, Tier II course in humanities or social sciences. Examines variety of ethical issues facing human service workers (social workers, psychologists, counselors, etc.), including questions of truth-telling and confidentiality, paternalism and self-determination, distributive justice (allocation of resources), etc. Mode for analyzing these issues is presented.

480Q Popular Media: Critical and Empirical Approaches (4)

Prereq: sr, TCQA 170 or 4 hrs of non-Tier I English. One purpose of course is to ask to what extent quantification of elements of popular fiction, film, and television is helpful in criticism of those forms. Other purpose is to address related but opposite question of whether criticism of those popular forms as thus commonly practiced—that is, more subjectively—can help to raise more interesting and complex issues than empirical studies of those forms have generally considered.

480R War: Historical and Dramatic Perspectives (4)

Prereq: sr and 4 hrs of history, political science, or theater. Through vehicle of history and drama, examines way in which America has been affected by warfare in 20th century. Dramas studied from historical and theatrical perspectives for insights they offer about history of American society during wartime.

480T Science Policy in the U.S. (4)

Prereq: sr, POLS 101 or lab science course. Considers the intersection of science and politics. Investigates how government affects science, how scientists become involved in political decisions, and how scientific information is used in public policy making. Examines the values and methods of both science and politics, traces the historical development of science policy, and analyzes contemporary issues where science and politics meet.

480V Contemporary American Family (4)

Prereq: sr or perm. Study of American families based on psychological and literary analysis in professional literature and recent fiction and drama. Four questions designate the nature of the synthesis: (1) What is the relationship between the psychological study of the American family and its presentation in recent literature? (2) Do the portrayals of families in the literature reflect the family dynamics described by the psychologists? (3) What conclusions are best revealed by each approach? (4) What results from the synthesis of literary and psychological disciplines? Concerned with structures, functions, communication, roles, conflict, and intimacy in family settings, and also with the manner of their presentation in the literature.

University College (UC)**110 Effective Study Skills (2)**

Prereq: fr or perm. Helps students assess present study behaviors and attitudes and adopt techniques that increase their effectiveness in managing, taking notes, reading and organizing text material, and preparing for exams. Emphasizes regular practice and use of skills taught.

In addition to the regularly scheduled ten-week course, UC 110 is also available as "Arranged" course that allows the student to proceed at an individualized pace. By this method, the student may complete requirements in fewer than 10 weeks.

110A Time Management and Test Taking Skills (1)

Concentrates on managing time and preparing for and taking examinations. UC 110A and 110B combined duplicate UC 110.

110B Notetaking from Lectures and Textbooks (1)

Helps students improve their ability to select important information in lectures, discussions, and textbooks, organize it in note form, and review it frequently. Emphasizes regular practice and use of organized notetaking systems. UC 110A and 110B combined duplicate UC 110.

112 College Reading Skills (2)

Prereq: fr or perm. Focuses on improving comprehension, interpretation, and evaluation of reading materials that are typical of college courses. Moves from short passages to longer selections. Includes speed reading techniques and vocabulary building. Emphasizes practice and application of skills.

In addition to the regularly scheduled ten week course, UC 112 is also available as "Arranged" course that allows the student to proceed at an individualized pace. By this method the student may complete requirements in fewer than or more than ten weeks.

112A Reading: Comprehending Textbooks (1)

Focuses on comprehension skills needed for reading college-level materials and a study system to help students read textbooks more efficiently. UC 112A plus 112B duplicates UC 112.

112B Reading: Improving Speed and Vocabulary (1)

Helps students increase their reading speed and learn to appropriately adjust these speeds for different types of reading materials and tasks. In addition, students learn effective techniques for developing a college-level vocabulary. UC 112A plus 112B duplicates UC 112.

114 College Reading and Study Skills (4)

Prereq: fr or perm. Combines UC 110 and 112 as described above. No duplicate credit given for either 110 or 112.

115 The University Experience (2)

Prereq: fr. To help students adapt to demands of University as academic environment; assessing interests, values, and abilities; exploring academic majors and their requirements; establishing educational and career goals; developing skills necessary for college success.

116 The University Experience-Regional Campus (3)

Prereq: fr. regional campus student. To help the non-residential, regional campus student adapt to demands of University as academic environment; assessing interests, values, and abilities; exploring academic majors and their requirements; establishing educational and career goals; developing skills necessary for college success.

University Professor (UP)

Courses are offered each year by the six University Professors selected the preceding academic year. The courses cover topics chosen by the professors themselves, and may be offered only twice through the University Professor program. Often University Professor courses have joint first-year and upperclass sections. As the courses are special offerings, no permanent listing of descriptions and registration information, is possible. See the college office for descriptions and registration information, or come to University College, Chubb Hall 140.

Generally, a University Professor course offered within the professor's area of training and expertise will count toward area requirements of different colleges, where applicable. Otherwise the credit fulfills elective credit hours. Be sure to check with your college office regarding application of University Professor course credit to college requirements.

150 University Professor

Title, prereq, and credit hrs published in *Schedule of Classes*. Fall qtr fr-level UP course.

151 University Professor

Title, prereq, and credit hrs published in *Schedule of Classes*. Winter qtr fr-level UP course.

152 University Professor

Title, prereq, and credit hrs published in *Schedule of Classes*. Spring qtr fr-level UP course.

450 University Professor

Title, prereq, and credit hrs published in *Schedule of Classes*. Fall qtr upperclass-level UP course.

451 University Professor

Title, prereq, and credit hrs published in *Schedule of Classes*. Winter qtr upperclass-level UP course.

452 University Professor

Title, prereq, and credit hrs published in *Schedule of Classes*. Spring qtr upperclass-level UP course.

Visual Communication (VICO)

The curriculum in visual communication includes the courses listed below plus a variety of photojournalism and picture editing courses offered through the E.W. Scripps School of Journalism and an equally varied selection of photo communication and photo illustration courses in the School of Art.

For more information, see a detailed description of the program in the College of Communication section of this catalog.

120 Introduction to Visual Communication (4)
A survey of visual communication theory and technology of visual communication from ancient cave drawings to digital computer images.

121 Visual Communication Delivery Systems (4)
Theory and practice of visual communication techniques in printed media.

220 Topic Seminar (2-4)
Prereq: 120 or perm. Examines the foundations of visual communication through the ages. Looks at the works of various photographic communicators and discusses how visual communication can inform, stimulate emotions, and influence viewers.

311 Informational Graphics (5)
Prereq: ART 251, JOUR 235, VICO 320, or perm. The visual presentation of quantitative and spatial information. Examines the planning, design, and computer preparation of charts, graphs, diagrams, and maps for use in newspapers and magazines.

314 Desktop Publishing (5)
Prereq: VICO 320, or jr, or perm. An introduction to the production, design, and techniques of desktop publishing. Explores the many software packages for desktop publishing for microcomputers with emphasis on the presentation of visual material on the page.

320 Topic Seminar (2-4)
Prereq: ART 397, JOUR 325, or perm. A flexible format for examining current and future topics in visual communication. Because of constantly changing trends in the profession, topics will vary as an area of need not covered in an existing class is identified. Topics will include the areas of rapid change such as technology, techniques, ethics, and aesthetics.

323 Publication Layout and Design (4)
Prereq: JOUR 221, 235, VICO 320. Examines historic and contemporary theories of layout and make-up design. Using computer systems that simulate pagination programs, students will investigate methods of combining type, graphics, and photographs on the printed page.

412 Advanced Informational Graphics (5)
Prereq: 311. Visual presentation of spatial information with emphasis on design and production techniques as they pertain to newspapers and magazines.

421 Documentary/Essay (5)
Prereq: ART 398 or JOUR 326 or perm. cooperative buying fee. The use of still photography as a tool for social, anthropological, and journalistic investigation of contemporary issues. Using methods defined by traditional field researchers, the class will expand the use of the photograph for collection and interpretation of selected subjects.

426 Advanced Publication Layout and Design (4)
Prereq: 323. Advanced study in the use of computers as a tool for layout, design, and pagination for print media.

427 Advanced Photographic Illustration: Business Practices (5)
Prereq: ART 388, ART 397, perm. An investigation of the principles of studio management. Areas of study will include copyright, computer usage, self promotion, and financial management.

428 Advanced Photographic Illustration: Studio Practices (5)
Prereq: ART 388, ART 397, perm. Advanced studio methods in the design and execution of illustration images. Particular emphasis will be placed on the professional performance in producing images using advanced equipment and techniques.

429 Advanced Photographic Illustration: Applications (5)
Prereq: ART 388, ART 397, perm. A synthesis of business and photographic skills. Students will be given simulations based on a complete project concept that reflects the realities of working professionally.

480 Digital Portfolio (0)
Prereq: VICO major, jr/sr standing. Portfolio production for VisCom majors. This class provides supervised access to the VisCom computer labs for the purpose of preparing portfolios for internships and job applications. Special fee required.

Women's Studies (WS)

This program is available as an option in any baccalaureate degree program offered by the University, regardless of the college in which the student is enrolled. The requirements for the certificate are WS 100, 22 additional quarter hours earned in classes on the designated core list below, and WS 400.

AAS 345 The Black Woman	4
AAS 482 The Black Family	4
ANTH 345 Gender in Cross-Cultural Perspective	4
ENG 153A Freshman Composition: Special Topics (Women and Men in Literature)	5
ENG 306J Women and Writing	4
ENG 325 Women and Literature	4
HIST 320A Women in American History Before 1877	4
HIST 320B Women in American History Since 1877	4
HIST 360 Women in European History	4
HIST 381 History of the Family	4
HLTH 427 Health of Women	4
HPES 400 Women in Sports	3
HPES 120 Assault Prevention for Women	2
INCO 420 Gender and Communication	4
INCO 422 Communication in the Family	4
LING 390 The Language of Men and Women	3
POLS 319 Gay Politics	4
POLS 420 Women, Law, and Politics	4
POLS 478 Feminist Political Theories and Movements	5
PSY 378 Psychology of Gender	4
SOC 220 Introduction to the Family	4
SOC 467 Violence Against Women	4
SOC 470 Sex Roles and Inequality	4
TCOM 481 Women and the Media	4
TCOM 486A Age, Class, Gender, Race, and Sexual Orientation in the Media	4
WS 100 Introduction to Women's Studies	4
WS 400 The New Scholarship on Women: The Question of Difference	4

Additional courses are currently being developed. Experimental courses and certain courses offered under special topics and special studies rubrics will also count as core courses under appropriate conditions. The student should see the women's studies director or associate director for additional information on courses. The Women's Studies Certificate is awarded upon graduation from Ohio University, and the award is recorded on the permanent record (transcript). Students seeking the certificate must consult the director prior to the deadline for graduation to ensure that the certificate will be awarded.

100 Introduction to Women's Studies (4) (2H)
Study of female experience, drawing on materials from literature, autobiography, philosophy, history, law, myth, religion, and social sciences. Looks at cultural beliefs about women's nature and role in different times and places; representation of women and their relationships with others in myth and literature; and women's efforts to define new identities through work, through creative activity, and through feminism, both historically and at present. Current issues explored.

400 The New Scholarship on Women: The Question of Difference (4)
Prereq: 100 or any course cross-listed under women's studies, sr, or perm. Question of sexual differences has both plagued and motivated contemporary feminist analyses. Course explores what new scholarship on women going on in diverse disciplines contributes to question of difference between women and men and among women.

490 Independent Reading (1-4)
Prereq: perm. Directed individual reading or research.

Departmental Faculty

The following listings were submitted by the dean's office in each college in May 1994 and verified in the Provost's Office. The regional campus faculties are listed after the main campus faculty.

Accountancy

O'Brieness Prof: Florence C. Sharp, Ph.D., *U. of Illinois, Urbana-Champaign, C.P.A.*

Prof: Ted R. Compton, Ph.D., *U. of Cincinnati, C.M.A., C.S.P.*; Charles H. D'Augustine (emeritus, part-time), Ph.D., *Florida State U., C.P.A.*; E. James Meddaugh, Ph.D., *Penn State U., C.P.A.*; William M. Voss, Ph.D., *U. of Chicago.*

Assoc. Prof: James S. Cox, Ph.D., *U. of Pittsburgh, C.P.A.*; Leon B. Hoshower, Ph.D., *Michigan State U., C.P.A.*; Robert F. Sharp (director), Ph.D., *U. of Texas, Austin, C.P.A.*; Donald V. Stuchell, M.A.S., *U. of Illinois, C.P.A.*

Asst. Prof: Carol A. Hilton, Ph.D., *U. of Arkansas*; Joseph N. Hilton, Ph.D., *U. of Arkansas.*

Instr: Olin Adams III, M.B.A., *Mount St. Mary's College, C.P.A.*; William Hoops, M.B.A., *Ohio U., C.P.A.*

Aerospace Studies

Prof: Randy E. Morris (chair), M.A., *Central Michigan U.*

Asst. Prof: David E. Saville, M.A., *Embry-Riddle U.*; Darrell D. Stone, M.B.A., *Webster U.*

African American Studies

Prof: Francine C. Childs, Ed.D., *East Texas State U.*

Assoc. Prof: Robert Rhodes, M.A., *U. of Cincinnati and M.S., Atlanta U.*; Vattel T. Rose (chair), Ph.D., *U. of Minnesota.*

Art

Prof: Joseph Bova (director), M.A., *U. of New Mexico*; Abner Jonas, M.F.A., *U. of Iowa*; David R. Klahn, M.F.A., *U. of Wisconsin, Madison*; William Kortlander (part-time), Ph.D., *U. of Iowa*; Ronald Kroutel (part-time), M.F.A., *U. of Michigan*; Mary Manusos, M.F.A., *U. of Wisconsin*; Karen Nulf, M.A., *Michigan State U.*; Gary Pettigrew, M.F.A., *Ohio U.*; Daniel Williams, M.A., *U. of Oregon.*

Assoc. Prof: Marilyn Bradshaw, Ph.D., *Indiana U.*; Robert Borchard (emeritus, part-time), M.S., *U. of Wisconsin*; Aethelred Eldridge, M.S.D., *U. of Michigan*; Erik Forrest (part-time), A.T.D., *U. of Edinburgh*; Michael Harper, Ph.D., *U. of North Carolina*; Charles McWeeny, M.F.A., *Oklahoma U.*; Robert Peppers, M.F.A., *Ohio U.*; Judith Perani, Ph.D., *Indiana U.*; Marilyn Poeppelmeyer, M.F.A., *SUNY, Buffalo*; Brad Schwieger, M.F.A., *Utah State U.*; Gary Schwindler, Ph.D., *U. of California, Los Angeles.*

Asst. Prof: Mary Campbell, M.F.A., *U. of California, Davis*; Carolyn Cardenas, M.F.A., *Drake U.*; J. Dobkin, M.F.A., *Cranbrook Academy of Art*; Eva Enderlein, M.F.A., *Indiana U.*; G. Gofbarg, M.F.A., *U. of New Mexico*; T. Hipp, M.F.A., *U. of North Carolina, Greensboro*; Joseph Lamb, Ph.D., *U. of California, Santa Barbara*; Robert Lazuka, M.F.A., *Arizona State U.*; Daniel Loewenstein, M.F.A., *U. of California, San Diego*; Duane McDiarmid, M.F.A., *Florida State U.*; Arlyn Simon, M.F.A., *Yale U.*

Aviation

Prof: C. Elaine McCoy (chair), Ph.D., *Ohio U.*

Asst. Prof: Ronald J. Faliszek, B.B.A., *Ohio U.*

Instr: Brad Thompson (part-time), B.S.A.S., *Ohio U.*; Jeff Kelly (part-time), B.S.A.S., *Ohio U.*; Joseph E. Kuhn (part-time), B.G.S., *Ohio U.*; David E. Samuels (part-time), B.S.A.S., *Ohio U.*

Biological Sciences

Goll Ohio Eminent Research Scholar: John Kopchick, Ph.D., *U. of Texas, Houston.*

Prof: Joseph Eastman, Ph.D., *U. of Minnesota*; Fredrick Hagerman, Ph.D., *Ohio State U.*; Robert Hikida, Ph.D., *U. of Illinois*; William Hummon, Ph.D., *U. of Massachusetts, Amherst*; Joseph Jollick, Ph.D., *West Virginia U.*; Siegfried Maier, Ph.D., *Ohio State U.*; Ellengene Peterson, Ph.D., *U. of California, Riverside*; William Romoser, Ph.D., *Ohio State U.*; Jerome Rovner, Ph.D., *U. of Maryland*; Michael Rowe, Ph.D., *U. of California, Riverside*; Gerald Svendsen, Ph.D., *U. of Kansas*; John Zook, Ph.D., *Duke U.*

Assoc. Prof: Huzoor Akbar, Ph.D., *Australian National U.*; Charles Atkins, Ph.D., *North Carolina State U.*; Mary Chamberlin, Ph.D., *U. of British Columbia*; Robert Colvin, Ph.D., *Rutgers U.*; Walter Costello, Ph.D., *Boston U.*; Ralph DiCaprio, Ph.D., *U. of Alberta, Edmonton*; Kenneth Goodrum, Ph.D., *U. of Texas, Austin*; Oscar Heck, Ph.D., *Washington State U.*; William Henley, Ph.D., *Colorado State U.*; John Howell, Ph.D., *U. of California, Los Angeles*; Patricia Humphrey, Ph.D., *Purdue U.*; Anne B. Loucks, Ph.D., *U. of California, Santa Barbara*; Louise Luckenbill, Ph.D., *Brown U.*; Donald Miles, Ph.D., *U. of Pennsylvania*; Malcolm Modrzakowski, Ph.D., *U. of Georgia*; Scott Moody, Ph.D., *U. of Michigan*; Finnie Murray (chair), Ph.D., *U. of Florida*; Ronald Portanova, Ph.D., *Case Western Reserve U.*; Edwin Rowland, Ph.D., *Wake Forest U.*; Robert Staron, Ph.D., *Ohio U.*; Matthew White, Ph.D., *Virginia Tech*; Leon Wince, Ph.D., *West Virginia U.*

Asst. Prof: Bonita Biegalka, Ph.D., *U. of Washington*; Audrone Biknevicius, Ph.D., *Johns Hopkins U.*; Anthony Brown, Ph.D., *King's College, U. of London*; William Holmes, Ph.D., *U. of California, Los Angeles*; Scott Hooper, Ph.D., *Brandeis U.*; Frank Horodyski, Ph.D., *U. of California, San Diego*; Calvin B. L. James, Ph.D., *Howard U.*; Brent Palmer, Ph.D., *U. of Florida*; Stephen N. Reilly, Ph.D., *Southern Illinois U.*; Linda Ross, Ph.D., *U. of Texas, Austin.*

Lect: Laura DiCaprio, Ph.D., *U. of Alberta, Edmonton*; Mary E. Eastman, M.S., *Ohio U.*; Janice Gault, M.S., *Ohio U.*; Margaret Hummon, Ph.D., *Ohio U.*; Molly McCarthy, M.S., *Rutgers U.*; Mary Nossek, M.S., *Ohio U.*; Michael Stampert, Ph.D., *Ohio U.*

Chemistry

Dist. Prof: William Huntsman (emeritus, part-time), Ph.D., *Northwestern U.*

Prof: John Blazyk, Ph.D., *Brown U.*; David Hendricker, Ph.D., *Iowa State U.*; Peter Johnson, Ph.D., *U. of Birmingham*; Howard Latz, Ph.D., *U. of Florida*; Paul Sullivan (chair), Ph.D., *U. of Waterloo*; James Tong, Ph.D., *U. of Wisconsin, Madison*; Thomas Wagner, Ph.D., *Northwestern U.*

Assoc. Prof: Jared Butcher, Jr., Ph.D., *U. of Tennessee*; Howard D. Dewald, Ph.D., *New Mexico State U.*; Karen E. Eichstadt, Ph.D., *U. of Kansas*; Keith F. McDaniel, Ph.D., *Princeton U.*; Gary Pfeiffer, Ph.D., *Carnegie Mellon U.*; Hugh H. Richardson, Ph.D., *Oklahoma State U.*; Gary Small, Ph.D., *U. of North Carolina*; Gene Westenbarger, Ph.D., *U. of California, Berkeley*.

Asst. Prof: Anthony Andrews, Ph.D., *U. of Hull*; Bing Gong, Ph.D., *U. of Chicago*; Peter deB. Harrington, Ph.D., *U. of North Carolina*; Frederick R. Lemke, Ph.D., *Purdue U.*; Lauren E. McMills, Ph.D., *Michigan State U.*; Mark C. McMills, Ph.D., *Michigan State U.*; Martin T. Tuck, Ph.D., *U. of Tennessee*.

Classical Languages

Assoc. Prof: Robert Stephen Hays (chair), Ph.D., *U. of Texas, Austin*.

Asst. Prof: James A. Andrews, Ph.D., *U. of California, Berkeley*; William Owens, Ph.D., *Yale U.*; Mark Landon, M.A., *U. of California, Berkeley*; Ruth Palmer, Ph.D., *U. of Cincinnati*; Maureen B. Ryan, Ph.D., *Ohio State U.*

Communication Systems Management

Assoc. Prof: Phyllis W. Bernt (director), Ph.D., *U. of Nebraska, Lincoln*.

Asst. Prof: Dennis Fouty, M.B.A., *U. of Nebraska, Lincoln*; Hans Kruse, Ph.D., *Vanderbilt U.*; Anthony G. Mele, B.S., *Ohio U.*; Trevor Roycroft, Ph.D., *U. of California, Davis*; Varadharajan Sridhar, Ph.D., *U. of Iowa*.

Comparative Arts

Prof: Jessica Haigney, Ph.D., *Ohio U.*; Robert Wortman (emeritus, part-time), Ph.D., *Florida State U.*

Asst. Prof: Wojtek Chojna, Ph.D., *Temple U.*

Visiting Asst. Prof: Rachel Hostetter, M.A., *Michigan State U.*

Computer Science

Prof: Richard Butrick, Ph.D., *Columbia U.*

Assoc. Prof: Klaus Eldridge, Ph.D., *U. of Colorado*; John Gillam, Ph.D., *Michigan State U.*

Asst. Prof: Venkat Gudivada, Ph.D., *U. of Southwestern Louisiana*; Larry Irwin, M.S., *Ohio U.*; Shawn Ostermann, Ph.D., *Purdue U.*; Santosh Pande, Ph.D., *North Carolina State U.*; Raleigh; Kleanthis Parris, Ph.D., *Stevens Institute of Technology*.

Instr: Timothy Killeen, M.S., *U. of California, Berkeley*; Margaret Thomas, M.A., *Ohio U.*

Dance

Prof: Gladys Bailin (director), B.A., *Hunter College*; Madeleine Scott, M.A., *U. of California, Los Angeles*.

Assoc. Prof: Patricia Brooks, B.S., *Wayne State U.*; Michelle Geller, M.F.A., *New York U. School of the Arts*; Marina Walchi, M.F.A., *Ohio U.*

Asst. Prof: Andre Gribou, M.M., *Juilliard School of Music*.

Lect: Frederick Krap (part-time).

Economics

Dist. Prof: Lowell Gallaway, Ph.D., *Ohio State U.*; Richard Vedder, Ph.D., *U. of Illinois*.

Prof: Douglas Adie, Ph.D., *U. of Chicago*; Edwin Charlé (emeritus, part-time), Ph.D., *Indiana U.*; Ismail Ghazalah, Ph.D., *U. of California, Berkeley*; David Klingaman, Ph.D., *U. of Virginia*; Rajindar K. Koshal, Ph.D., *U. of Rochester*; Vishwa Shukla, Ph.D., *U. of Wisconsin, Madison*.

Assoc. Prof: Roy Boyd, Ph.D., *Duke U.*; Khosrow Dorodian, Ph.D., *U. of Oregon*; Jan Palmer (chair), Ph.D., *Michigan State U.*; Rosemary Rossiter, Ph.D., *U. of Wisconsin, Milwaukee*.

Asst. Prof: Tony Caporale, Ph.D., *George Mason U.*; Jocelyn M. Hammaker, Ph.D., *U. of California, Riverside*; Chulho Jung, Ph.D., *U. of Michigan*; Kathryn G. Marshall, Ph.D., *U. of California, Berkeley*; Harold Winter, Ph.D., *U. of Rochester*.

Instr: Barbara McKiernan, Ph.D., *George Mason U.*

Education—Applied Behavioral Sciences and Educational Leadership

Prof: Robert Barcikowski, Ph.D., *SUNY, Buffalo*; Fred Dressel (part-time), Ed.D., *Indiana U.*; Max Evans (emeritus, part-time), Ph.D., *Ohio State U.*; James Grubb (emeritus, part-time), Ph.D., *Ohio U.*; Luther Haseley (emeritus, part-time), Ed.D., *U. of Toledo*; Richard Hazler, Ph.D., *U. of Idaho*; Lazarus Jaji, Ph.D., *U. of Illinois*; Donald Knox (emeritus, part-time), Ed.D., *Case Western Reserve U.*; Richard Miller, Ph.D., *Columbia U.*; Sally Navin, Ph.D., *Ohio State U.*; Conrad W. Snyder, Ph.D., *U. of Pennsylvania*; Thomas Sweeney (emeritus, part-time), Ph.D., *Ohio State U.*; Melvin Witmer (emeritus, part-time), Ph.D., *Florida State U.*; Robert Young, Ph.D., *U. of Illinois*.

Assoc. Prof: Patricia Beamish, Ed.D., *West Virginia U.*; Thomas Davis, Ph.D., *Ohio State U.*; Glenn Doston, Ph.D., *Northwestern U.*; Crystal Gips, Ed.D., *Boston U.*; George Johanson, Ed.D., *U. of Massachusetts*.

Asst. Prof: Suzy Green, Ph.D., *Ohio U.*; James Hartman, Ph.D., *Kent State U.*; Frances Pearson, Ph.D., *Ohio State U.*; Christopher Sny, Ph.D., *U. of Wisconsin*; David Stone, Ph.D., *Ohio U.*

Education—Curriculum and Instruction

Prof: Larry Jageman, Ed.D., *U. of Northern Colorado*; Gail Jaji, Ph.D., *Syracuse U.*; Monroe Johnson, Ed.D., *U. of Tennessee*; Albert Leep, Ed.D., *Ball State U.*; Ralph Martin, Ph.D., *U. of Toledo*; Ragy Mitias, Ph.D., *Ohio State U.*; Reba Pinney (emerita, part-time), Ph.D., *Ohio U.*; William Rader, Ph.D., *Purdue U.*; Stephen Safran, Ph.D., *U. of Virginia*; H. Wells Singleton (dean), Ph.D., *Stanford U.*; Ray Skinner (emeritus, part-time), Ph.D., *Kent State U.*; Charles Smith, Jr., Ed.D., *Wayne State U.*; Edward Stevens, Jr., Ed.D., *U. of Rochester*; James Thompson (emeritus, part-time), Ph.D., *Ohio State U.*; George Wood, Ph.D., *U. of Illinois*.

Assoc. Prof: Arthur Clubok, Ph.D., *U. of Michigan*; R. Keith Hillkirk, Ph.D., *Penn State U.*; Stephen Howard, Ph.D., *Michigan State U.*; John McCutcheon, Ed.D., *Indiana U.*; Joan McMath, Ph.D., *U. of Akron*; Sondra Rebottini, Ed.D., *West Virginia U.*; Barbara Reeves, Ed.D., *U. of Kentucky*; Marta Roth, Ed.D., *West Virginia U.*; William Smith, Ed.D., *Indiana U.*; Scott Sparks, Ph.D., *U. of Florida*; Karen J. Viechnicki, Ph.D., *Kent State U.*; James Yanok, Ph.D., *Kent State U.*

Asst. Prof: Bonnie Beach, Ph.D., *Ohio U.*; Alice Blake-Stalker, Ph.D., *U. of Georgia*; Michael Flemister, M.A., *Central Michigan U.*; Evelyn Reid, Ph.D., *U. of Wisconsin, Madison*; Sallie Roberts (part-time), M.A., *Ohio U.*; Joan Safran, Ph.D., *U. of Virginia*; Coleen Sexton, Ph.D., *Ohio U.*

Instr: Betty Mason, M.Ed., *Ohio U.*; Dawn Stout, Ph.D., *Ohio U.*

Education—Professional Laboratory Experiences

Prof: Rena Allen, M.A., *Marshall U.*

Instr: Bonnie Bailey, M.Ed., *Indiana U.* of *Pennsylvania*; Diane Burkhart, M.Ed., *Kent State U.*; Carolyn Richardson, M.S., *Ohio U.*; Connie Scott, M.Ed., *Ohio U.*

Engineering, Chemical

Prof: William Baasel (emeritus, part-time), Ph.D., *Cornell U.*; Calvin Baloun, Ph.D., *U. of Cincinnati*; Nicholas Dinos, Ph.D., *Lehigh U.*; W. Paul Jepson (chair), Ph.D., *Heriot-Watt U., Scotland*; Michael Prudich, Ph.D., *West Virginia U.*

Assoc. Prof: Wen-Jia Russell Chen, Ph.D., *Syracuse U.*; Daniel Gulino, Ph.D., *U. of Illinois, Urbana-Champaign*; Kendree Sampson, Ph.D., *Purdue U.*

Asst. Prof: Tingyue Gu, Ph.D., *Purdue U.*; Darin Ridgway, Ph.D., *Florida State U.*

Engineering, Civil

Prof: Glenn Hazen (chair), Ph.D., *Penn State U.*; Harry Kaneshige (emeritus, part-time), Ph.D., *U. of Wisconsin, Madison*; Gayle Mitchell, Ph.D., *Mississippi State U.*; Shad Sargand (Russ Prof.), Ph.D., *Virginia Polytechnic Institute and State U.*

Assoc. Prof: Tiao Chang, Ph.D., *Purdue U.*; Edward Russ (emeritus, part-time), M.S.C.E., *Clarkson College of Technology*.

Asst. Prof: Kenneth B. Edwards, Ph.D., *Iowa State U.*; Lloyd A. Herman, Ph.D., *Vanderbilt U.*; Joseph Recktenwald, Ph.D., *U. of Akron*; Eric P. Steinberg, Ph.D., *Michigan Tech. U.*

Engineering, Electrical and Computer

Prof: Hollis Chen, Ph.D., *Syracuse U.*; Joseph Essman, Ph.D., *Purdue U.*; James Gilfert (emeritus, part-time), Ph.D., *Ohio State U.*; Herman Hill, Ph.D., *West Virginia U.*; Harry Hoffee (emeritus, part-time), M.S.E.E., *Ohio U.*; Robert Judd (Cooper Industries Prof.), Ph.D., *Oakland U.*; Harold Klock (emeritus, part-time), Ph.D., *Northwestern U.*; Robert Lilley (part-time), Ph.D., *Ohio U.*; Henryk Lozykowski, Ph.D., *N. Copernicus U.*; Brian Manhire, Ph.D., *Ohio State U.*; Richard McFarland (Russ Prof., emeritus, part-time), Ph.D., *Ohio State U.*; Jerrel Mitchell (Russ Prof., chair), Ph.D., *Mississippi State U.*; M.E. Mokari, Ph.D., *U. of Illinois*; Roger Radcliff, Ph.D., *West Virginia U.*; William Shepherd (Stocker Visiting Prof.), Ph.D., *U. of London*; Janusz Starzyk, Ph.D., *Technical U., Warsaw*.

Assoc. Prof: Mehmet Celenk, Ph.D., *Stevens Institute of Technology*; Robert Curtis, Ph.D., *New York U.*; Jeffrey Dill, Ph.D., *U. of Southern California*; Jeffrey Giesey, Ph.D., *U. of Michigan*; R. Dennis Irwin, Ph.D., *Mississippi State U.*; John A. Tague, Ph.D., *Penn State U.*; Frank van Graas, Ph.D., *Ohio U.*

Asst. Prof: Michael S. Braasch, Ph.D., *Ohio U.*; Douglas Lawrence, Ph.D., *Johns Hopkins U.*; Joseph H. Nurre, Ph.D., *U. of Cincinnati*; Constantinos Vassiliadis, Ph.D., *Mississippi State U.*

Instr: Victor Hanna (part-time), M.S., *Youngstown State U.*

Engineering, Industrial and Systems

Prof: Charles M. Parks (chair), Ph.D., *Oklahoma State U.*; Donald Scheck (emeritus, part-time), Ph.D., *Purdue U.*; Robert Williams, Ph.D., *Ohio State U.*; Helmut Zwaehlen (Russ Prof.), Ph.D., *Ohio State U.*

Assoc. Prof: E. Ralph Sims (part-time), M.B.A., *Ohio U.*

Asst. Prof: Richard J. Gerth, Ph.D., *U. of Michigan*; David A. Koonce, Ph.D., *Louisiana State U.*; Thomas A. Lacksonen, Ph.D., *Pennsylvania State U.*; Luis Rabelo, Ph.D., *U. of Missouri*

Engineering, Mechanical

Prof: O.E. Adams, Jr. (emeritus, part-time), Ph.D., *Lehigh U.*; Khairul Alam, Ph.D., *California Institute of Technology*; Jay Gunasekera (Moss Prof., chair), Ph.D., *U. of London*; Roy Lawrence, Ph.D., *Southern Methodist U.*; T. Richard Robe (dean), Ph.D., *Stanford U.*

Assoc. Prof: Mohammad Dehghani, Ph.D., *Louisiana State U.*; Gary Graham, Ph.D., *Texas Technical U.*; Kenneth Halliday, Ph.D., *U. of Massachusetts*; Israel Urieli, Ph.D., *U. of Witwatersrand*

Asst. Prof: Sunil Agrawal, Ph.D., *Stanford U.*; Robert L. Williams II, Ph.D., *Virginia Polytechnic Institute and State U.*; Bhavin Mehta (part-time), M.S., *Ohio U.*

English

Dist. Prof: Wayne Dodd, Ph.D., *U. of Oklahoma*; John Matthews, M.A., *Ohio State U.*

Trustee Prof: Samuel Crowl, Ph.D., *Indiana U.*

Prof: Laurence Bartlett, Ph.D., *Michigan State U.*; Frank Cronin, Ph.D., *U. of Pittsburgh*; Susan Crowl, Ph.D., *Indiana U.*; James Davis, Ph.D., *Florida State U.*; Robert DeMott, Ph.D., *Kent State U.*; Raymond Fitch, Ph.D., *U. of Pennsylvania*; Roy Flannagan, Ph.D., *U. of Virginia*; John Hollow, Ph.D., *U. of Rochester*; Daniel Keyes, M.A., *CUNY, Brooklyn*; Earl Knies, Ph.D., *U. of Illinois*; Julia Lin, Ph.D., *U. of Washington*; Dean McWilliams, Ph.D., *U. of Oregon*; Lester Marks, Ph.D., *Syracuse U.*; Cosmo Pieterse, M.A., *U. of Cape Town*; Vance Ramsey, Ph.D., *U. of Oklahoma*; Barry Roth, Ph.D., *Stanford U.*; Duane Schneider, Ph.D., *U. of Colorado*; Eve Shelnutt, M.F.A., *U. of North Carolina*; Greensboro; Harold Swardson, Ph.D., *U. of Minnesota*; James Thompson, Ph.D., *U. of Cincinnati*; Ann Wells, Ph.D., *U. of Michigan*

Assoc. Prof: Marilyn Atlas, Ph.D., *Michigan State U.*; David Bergdahl, Ph.D., *Syracuse U.*; David Heaton, Ph.D., *U. of Michigan*; Janis Holm, Ph.D., *U. of Michigan*; Mara Holt, Ph.D., *U. of Texas*; Linda Hunt, Ph.D., *U. of California, Berkeley*; Reid Huntley, Ph.D., *U. of North Carolina, Chapel Hill*; Ernest Johansson, Ph.D., *U. of North Carolina, Chapel Hill*; Peter Kousaleos, Ph.D., *Ohio U.*; William Kuhre, Ph.D., *Penn State U.*; Ben Park, Ph.D., *U. of Oklahoma*; Betty Pytkik (chair), Ph.D., *U. of Southern California*; Mark Rollins, Ph.D., *U. of Massachusetts, Amherst*; Arthur Woolley, Ph.D., *U. of Wisconsin, Madison*; Linda Zionskowski, Ph.D., *Northwestern U.*

Asst. Prof: Torr Andrews, M.F.A., *U. of Virginia*; Josephine Brumfield, Ph.D., *U. of California, Davis*; Kenneth Daley, Ph.D., *New York U.*; Paul Cornbrooks, Ph.D., *Rensselaer Polytechnic Institute*; Christine Freeman, Ph.D., *Kent State U.*; Loreen Giese, Ph.D., *Emory U.*; David Lazar, Ph.D., *U. of Houston*; Robert Williams, Ph.D., *SUNY, Buffalo*; Charles Wagnon, Ph.D., *Ohio U.*; Lorelei J. Heil, Ph.D., *Ohio U.*; Valerie Wooten, Ph.D., *Ohio U.*

Instr: David Bruce, M.A., *Ohio U.*; Jane Denbow, M.A., *Marshall U.*; Thomas Mantey, M.A., *Ohio U.*; David Sharpe, M.A., *Brown U.*; Joan Zook, M.A., *U. of Michigan*

Environmental and Plant Biology

Dist. Prof: Norman Cohn, Ph.D., *Yale U.*

Prof: James Braselton, Ph.D., *Iowa State U.*; James Cavender, Ph.D., *U. of Wisconsin*; Laurence Larson, Ph.D., *Purdue U.*; Robert Lloyd, Ph.D., *U. of California, Berkeley*; John Mitchell, Ph.D., *Edinburgh U.*; Gar Rothwell, Ph.D., *U. of Alberta*; Ivan Smith (chair), Ph.D., *U. of London*; Irwin Ungar, Ph.D., *U. of Kansas*

Assoc. Prof: Philip Cantino, Ph.D., *Harvard U.*; James Herbert Graffius, Ph.D., *Michigan State U.*; Jan Salick, Ph.D., *Cornell U.*; Allan M. Showalter, Ph.D., *Rutgers U.*

Asst. Prof: Brian McCarthy, Ph.D., *Rutgers U.*; Arthur T. Trese, Ph.D., *U. of Missouri*

Film

Prof: George Semsel, Ph.D., *Ohio State U.*; David O. Thomas (director), Ph.D., *Southern Illinois U.*

Assoc. Prof: Wilber R. Norman, Jr., Ph.D., *Ohio State U.*

Asst. Prof: Ruth Bradley, Ph.D., *U. of Michigan*; Jenny Kwok Wah Lau, Ph.D., *Northwestern U.*

Finance

Charles G. O'Brien Prof. of Finance and Banking: Ganas K. Rakes (chair), D.B.A., *Washington U.*

Prof: Azmi D. Mikhail, Ph.D., *Ohio State U.*; Harlan R. Patterson, Ph.D., *Michigan State U.*

Assoc. Prof: Dwight A. Pugh, Ph.D., *Ohio U.*

Asst. Prof: Bruce S. Berlin, Ph.D., *Michigan State U.*; Jeffrey Allen Manzi, Ph.D., *Kent State U.*

Instr: John E. Reynolds III, Executive in Residence; Scott B. Wright, M.B.A., *Ohio U.*

Geography

Prof: Nancy R. Bain, Ph.D., *U. of Minnesota*; Frank E. Bernard, Ph.D., *U. of Wisconsin, Madison*; Bob J. Walter, Ph.D., *U. of Wisconsin, Madison*; Hubert G.H. Wilhelm, Ph.D., *Louisiana State U.*; Lynden S. Williams, Ph.D., *U. of Kansas*

Assoc. Prof: Hubertus H.L. Bloemer (chair), Ph.D., *The Union Institute*; James L. Cobban, Ph.D., *U. of California, Berkeley*

Asst. Prof: Ronald H. Isaac, Ph.D., *Southern Illinois U.*; James K. Lein, Ph.D., *Kent State U.*

Instr: Michael A. Kukral, M.S., *Ohio U.*

Geological Sciences

Prof: Moid Ahmad, Ph.D., *U. of London*; F. Donald Eckelmann, Ph.D., *Columbia U.*; Royal Mapes (chair), Ph.D., *U. of Iowa*; Damian Nance, Ph.D., *U. of Cambridge*; Edward Geoffrey Smith, Ph.D., *Ohio State U.*; Thomas Worsley, Ph.D., *U. of Illinois*

Assoc. Prof: Gene Heien, M.A., *Indiana U.*

Asst. Prof: Douglas Green, Ph.D., *U. of Wisconsin, Madison*; David Yidder, Ph.D., *U. of California, Santa Barbara*

Health Sciences

Prof: Clifford Houk, Ph.D., *Montana State U.*; Gari Lesnoff-Caravaglia, Ph.D., *U. of California, Los Angeles*

Assoc. Prof: Franklin B. Carver, Ph.D., *Ohio U.*; Marsha Gathron, Ed.D., *Oklahoma State U.*; Richard Hedges, Ph.D., *U. of Kentucky*

Asst. Prof: Patricia Baasel, Ph.D., *Ohio U.*; Douglas Bolon, Ph.D., *Virginia Polytechnic Institute and State U.*; Margaret Christensen, Ed.D., *Oklahoma State U.*; Ernesto Randolfi, Ph.D., *U. of Oregon*

Instr: Juli Miller (part-time), M.H.S.A., *Ohio U.*; Katherine Will (part-time), M.H.S.A., *Ohio U.*

Hearing and Speech Sciences

Prof: Joann Fokes (emerita, part-time), Ph.D., *Purdue U.*; Donald Fucci, Ph.D., *Purdue U.*; Edwin Leach (director), Ph.D., *U. of Kansas*

Assoc. Prof: Dean Christopher, Ph.D., *Ohio State U.*; Norman Garber, Ph.D., *U. of Missouri*; Ronald Isele (emeritus, part-time), M.A., *Kent State U.*; Richard Navarro, Ph.D., *Vanderbilt U.*

Asst. Prof: Emily Buckberry, M.A., *Ohio U.*; Helen Conover, M.A., *Ohio U.*; C. Richard Dean, Ph.D., *Stanford U.*

Instr: Joan Fucci, M.S., *U. of Pittsburgh*; F. Travis Milliken, M.S., *Brigham Young U.*; William Wolfolk, M.A., *Eastern Michigan U.*

History

Ohio Eminent Research Scholar: Alfred Eckes, Ph.D., *U. of Texas*

Dist Prof: Charles Alexander, Ph.D., *U. of Texas*; John Gaddis, Ph.D., *U. of Texas*

Prof: Alan Booth, Ph.D., *Boston U.*; James Chastain, Ph.D., *U. of Oklahoma*; Marvin Fletcher, Ph.D., *U. of Wisconsin, Madison*; Alonzo Hamby, Ph.D., *U. of Missouri*; Donald Jordan, Ph.D., *U. of Wisconsin, Madison*; William Kaldis, Ph.D., *U. of Wisconsin, Madison*; Compton Reeves, Ph.D., *Emory U.*; Donald Richter, Ph.D., *U. of Maryland*; Bruce Steiner (chair), Ph.D., *U. of Virginia*

Assoc. Prof: Douglas Baxter, Ph.D., *U. of Minnesota*; Phillip Bebb, Ph.D., *Ohio State U.*; Phyllis Field, Ph.D., *Cornell U.*; William Frederick, Ph.D., *U. of Hawaii*; Michael Grow, Ph.D., *George Washington U.*; Richard Harvey, Ph.D., *U. of Missouri*; Lyle McGeoch, Ph.D., *U. of Pennsylvania*; Steven Miner, Ph.D., *Indiana U.*; Chester Pach, Ph.D., *Northwestern U.*; Roy Rauschenberg, Ph.D., *U. of Illinois*; Robert Whealey, Ph.D., *U. of Michigan*

Asst. Prof: Katherine Jellison, Ph.D., *U. of Iowa*; Sholeh A. Quinn, Ph.D., *U. of Chicago*

Human and Consumer Sciences

Prof: Margaret King, Ed.D., *U. of Massachusetts*

Assoc. Prof: Judy Matthews (director), Ph.D., *Ohio State U.*; Catherine McQuaid-Steiner, Ph.D., *Ohio U.*; Prisca Nemapore, Ph.D., *U. of Tennessee*; Ernest Stricklin, Ph.D., *Boston U.*

Asst. Prof: Lee Cibrowski, Ph.D., *Ohio State U.*; Schuyler Cone, Ph.D., *Ohio State U.*; Helen Hagens, Ph.D., *Michigan State U.*; Ann Paulins, Ph.D., *Ohio State U.*; Sharran Parkinson, M.S., *Florida State U.*; Donald R. Pierucci (part-time), M.A., *Carnegie Tech*; June Varner, Ed.D., *West Virginia U.*

Instr: Marjorie Hagerman, M.S., *Ohio U.*; Richard Neumann, M.S., *U. of Wisconsin*

Industrial Technology

Prof: Menno DiLiberto (emeritus, part-time), Ed.D., *U. of Illinois*; James Fales (Loehr professor, chair), Ed.D., *Texas A & M*; William Reeves, Ed.D., *U. of Kentucky*; Albert Squibb (emeritus, part-time), D.Ed., *Penn State U.*

Assoc. Prof: John Deno, Ph.D., *Ohio State U.*; Richard Nostrand (emeritus, part-time), M.S.Ed., *SUNY, Buffalo*; Arlen Saunders (emeritus, part-time), M.A., *Morehead State U.*; Timothy Sexton, Ph.D., *Ohio U.*

Asst. Prof: Dinesh Dhamija, M.S., *Ohio U.*; Thomas E. Scott, M.B.A., *Butler U.*; Peter W. Klein, M.Ed., *Colorado State U.*; Patrick J. McCuiston, Ph.D., *Texas A & M.*

Interpersonal Communication

Prof: Dan Canary, Ph.D., *U. of Southern California*; Tom Daniels, Ph.D., *Ohio U.*; Sue DeWine (director), Ph.D., *Indiana U.*; Paul Nelson (dean), Ph.D., *U. of Minnesota*; Judy C. Pearson, Ph.D., *Indiana U.*; John Timmis III (emeritus, part-time), Ph.D., *Penn State U.*

Assoc. Prof: Charles Carlson (emeritus, part-time), M.Ed., *Kent State U.*; David Descutner, Ph.D., *U. of Illinois*; Ted Foster, Ph.D., *Ohio U.*; Elizabeth Graham, Ph.D., *Kent State U.*; Maung Gyi, Ph.D., *Ohio U.*; Claudia Hale, Ph.D., *U. of Illinois*; Anita James, Ph.D., *U. of Southern California*; Michael Papa, Ph.D., *Temple U.*; Ray Wagner, Ph.D., *Ohio U.*

Asst. Prof: Roger Aden, Ph.D., *U. of Nebraska*; Christina Beck, Ph.D., *U. of Oklahoma*; Judith Yaross Lee, Ph.D., *U. of Chicago*; Arvind Singhal, Ph.D., *U. of Southern California*; John Smith, Ph.D., *Wayne State U.*

Instr: Cedric Dawkins, M.A., *Ohio U.*; Wendy Papa, M.A., *Central Michigan U.*

Lect: Margaret Killough, J.D., *U. of Detroit.*

Journalism

Dist. Prof: Guido Stempel III, Ph.D., *U. of Wisconsin.*

Prof: Michael Bugeja, Ph.D., *Oklahoma State U.*; Hugh Culbertson (emeritus, part-time), Ph.D., *Michigan State U.*; Dru Riley Everts, Ph.D., *Ohio U.*; Melvin Helitzer, B.A., *Syracuse U.*; Ralph Izard (director), Ph.D., *U. of Illinois*; Ralph Kliesch (emeritus, part-time), Ph.D., *U. of Minnesota*; Donald Lambert, M.A., *Penn State U.*; Jerry Sloan, B.S., *Ohio U.*; Patrick Washburn, Ph.D., *Indiana U.*

Assoc. Prof: Anne M. Cooper, Ph.D., *U. of North Carolina*; Marilyn Greenwald, M.A., *Ohio State U.*; Sandra Haggerty, B.S., *Utah State U.*; Thomas Hodges, M.S., *South Dakota State U.*; Ron Pittman, M.S., *Marshall U.*; Robert J. Richardson (part-time), M.S., *Ohio U.*; Robert Stewart, M.A., *U. of Washington*; Patricia Westfall, M.S., *Columbia U.*

Asst. Prof: Joe Bernt, Ph.D., *U. of Nebraska*; Ovril Patricia Cambridge, Ph.D., *Ohio U.*; Eddith Dashiell, M.A., *Middle Tennessee State U.*; Larry Levin, Ph.D., *American U.*; Cassandra Reese, M.B.A., *Governors State U.*; Frazier Smith, B.A., *Indiana U.*

Instr: Herbert Amey (part-time), B.S.J., *Ohio U.*; Nancy Burton, B.A., *Emerson College*; Ray Frye (part-time), B.S.J., *Ohio U.*; Carol James (part-time), B.S.J., *Ohio U.*; Karl Runser (part-time), B.A., *Ohio U.*

Asst. Instr: Richard Bean; Douglas E. Noel, B.S.C., *Ohio U.*

Linguistics

Prof: Zinny Bond, Ph.D., *Ohio State U.*

Assoc. Prof: James Coady, Ph.D., *Indiana U.*; Richard McGinn, Ph.D., *U. of Hawaii*; Keiko Koda, Ph.D., *U. of Illinois*; Marmo Soemarmo, Ph.D., *U. of California, Los Angeles.*

Asst. Prof: Neil J. Anderson, Ph.D., *U. of Texas*; Beverly Flanigan, Ph.D., *Indiana U.*

Instr: Joe Amoako, Ph.D., *U. of Florida*; Lutfi Hussein, M.A., *Ohio State U.*; Miki Shibata, M.A., *Ohio U.*; Suharni Soemarmo, M.A., *U. of California, Los Angeles*; Miki Ueda, M.A., *Ohio U.*; Mei-Hua Zhai, Ph.D., *Ohio U.*

Management Information Systems

Prof: John Day (chair), Ph.D., *Ohio U.*; Thomas G. Luce, Ph.D., *Purdue U.*; Anne H. McClanahan, Ph.D., *Ohio U.*; James Perotti, Ph.D., *Duquesne U.*

Assoc. Prof: David Sutherland, Ph.D., *U. of Kansas.*

Asst. Prof: Ellsworth Holden, M.A., *Harvard U.*; Hao Lou, Ph.D., *U. of Houston.*

Lect: Corrine Brown (part-time), Ph.D., *Ohio U.*

Management Systems

O'Brien Prof: John R. Schermerhorn, Jr., Ph.D., *Northwestern U. Grad School of Mgt.*

Lecturer and Executive-in-Residence: Richard C. Scamehorn, M.B.A., *Indiana U.*

Prof: Thomas Bolland, Ph.D., *U. of Chicago*; Stephen H. Fuller, D.B.A., *Harvard Graduate School of Business Administration*; Manjilika Koshal, Ph.D., *Patna U.*; Arthur Marinelli (chair), J.D., *Ohio State U.*; S. Benjamin Prasad (emeritus, part-time), Ph.D., *U. of Wisconsin, Madison*; Lucian Spataro, Ph.D., *U. of Illinois*; John Stinson, Ph.D., *Ohio State U.*; Lane Tracy, D.B.A., *U. of Washington.*

Assoc. Prof: Frank Barone, Ph.D., *Ohio State U.*; Gerald F. Carvalho, Ph.D., *U. of Michigan*; Kenneth Cutright, Ph.D., *West Virginia U.*; William Day, D.B.A., *Harvard U.*; Frances M. Fuller, A.M., *Columbia U.*; Patricia Gunn, J.D., *Boston College*; Mary Keifer, J.D., *U. of Virginia*; Clarence Martin, Ph.D., *Carnegie Mellon U.*; Richard Milter, Ph.D., *SUNY, Albany*; Valerie Perotti, Ph.D., *Ohio U.*; Bonnie Roach, Ph.D., *Ohio State U.*; Jessie Roberson, J.D., *U. of Michigan*; Alice Rutkoskie (emerita, part-time), M.S., *Indiana U.*; Edward B. Yost, Ph.D., *Ohio State U.*

Asst. Prof: Carl Bridges, Ed.D., *Northern Illinois U.*; Garth Coombs, M.B.A., *U. of Colorado*; Rebecca A. Thacker, Ph.D., *Texas A & M.*

Instr: Virginia Woolley (part-time), M.A., *U. of Wisconsin, Madison.*

Lect: Pamela A. Boger (part-time), Ph.D., *Ohio U.*; C. Michael Gray (part-time), J.D., *U. of Wisconsin*; Peggy Miller (part-time), Ph.D., *Ohio U.*; Reid Sinclair (part-time), Ph.D., *Vanderbilt U.*

Marketing

Prof: Ashok Gupta (chair), Ph.D., *Syracuse U.*; Kahandas Nandola, Ph.D., *U. of Pennsylvania.*

Assoc. Prof: Timothy P. Hartman, Ph.D., *Ohio U.*

Asst. Prof: Catherine N. Axinn, Ph.D., *Michigan State U.*; Mary Elizabeth Blair, Ph.D., *U. of South Carolina*; Daniel E. Innis, Ph.D., *Ohio State U.*

Instr: Larry S. Rogers, M.B.A., *Ohio U.*

Mathematics

Prof: Abdol-Reza Aftabizadeh, Ph.D., *U. of Texas, Arlington*; Sergiu Aizicovici, Ph.D., *U. of Iasi*; Alexander V. Arhangelskii, Dr. Sc., VAC, *USSR*; Ralph deLaubenfels, Ph.D., *U. of California, Berkeley*; Surender Jain, Ph.D., *U. of Delhi*; Donald Norris (emeritus, part-time), Ph.D., *Ohio State U.*; Nicolae Pavel, Ph.D., *U. of Iasi*; Hari Shankar, M.A., *U. of Cincinnati*; Larry Snyder, Ph.D., *Purdue U.*; Shih-Liang Wen, Ph.D., *Purdue U.*; Howard Wicke, Ph.D., *U. of Iowa*; Thomas Wolf, Ph.D., *U. of Wisconsin, Madison.*

Assoc. Prof: Jeffery Connor, Ph.D., *Kent State U.*; Ellery Golos (emeritus, part-time), M.A., *U. of Michigan*; Eliot Jacobson, Ph.D., *U. of Arizona*; David Keck, Ph.D., *Ohio State U.*; Sergio Lopez-Permouth, Ph.D., *North Carolina State U.*; Paul S. Malcom, Ph.D., *Ohio State U.*; Cyrus Mehr (emeritus, part-time), Ph.D., *Purdue U.*; M.S.K. Sastry, Ph.D., *U. of Rochester*; James Shirey, Ph.D., *Purdue U.*; Mary Anne Swardson (chair), Ph.D., *Ohio U.*; Robert Vancko, Ph.D., *Penn State U.*

Asst. Prof: Walter Carlip, Ph.D., *U. of Chicago*; Steven A. Chapin, Ph.D., *Rutgers U.*; Winfried Just, Ph.D., *U. of Warsaw*; William E. Kaufman, Ph.D., *U. of Houston*; Paul J. Szeptycki, Ph.D., *U. of Toronto*; Quoc Phong Vu, Dr. Sc., VAC, *USSR.*

Military Science

Prof: David J. Bennett (chair), B.A., *Bowling Green State U.*

Asst. Prof: James R. Oliver, M.B.A., *Mississippi State U.*; Terrence J. Smith, M.A., *Webster U.*; Paul A. Stock, M.B.A., *Oklahoma City U.*

Modern Languages

Prof: Richard Danner, Ph.D., *Indiana U.*; Thomas Franz, Ph.D., *U. of Kansas*; Manuel Serna-Maytorena (emeritus, part-time), Ph.D., *U. of Missouri*; Barry Thomas, Ph.D., *U. of California, Berkeley*; Lois Vines, Ph.D., *Georgetown U.*; Maureen Weissenrieder (chair), Ph.D., *Penn State U.*; William Wraga, Ph.D., *U. of Wisconsin, Madison.*

Assoc. Prof: Noel Barstad (emeritus, part-time), Ph.D., *U. of Minnesota*; David Burton, Ph.D., *U. of Kentucky*; Carl Carrier, Ph.D., *Indiana U.*; Abelardo Moncayo-Andrade, Ph.D., *U. of Maryland*; Ruth Nybakken, Ph.D., *Columbia U.*; C. P. Richardson, M.A., *Ohio U.*; Herta Rodina, Ph.D., *Harvard U.*; Marie-Claire Wraga, Ph.D., *U. of Wisconsin, Madison.*

Asst. Prof: Eloise Boyle, Ph.D., *Ohio State U.*; Grafton Conliffe (emeritus, part-time), Ph.D., *Northwestern U.*; Dominique Duvert, Ph.D., *U. of North Carolina*; Margrit Frolich, Ph.D., *Cornell U.*; Mary Jane Kelley, Ph.D., *U. of Wisconsin, Madison*; H. Mark Larson, Ph.D., *Ohio State U.*; Karen Mallory, Ph.D., *U. of Virginia*; Betsy Partyka, Ph.D., *U. of Oxford, England*; Ann Salomone, Ph.D., *Ohio State U.*; Daniel Torres, Ph.D., *U. of Cincinnati.*

Lect: Bartolomeo Martello, M.A., *Michigan State U.*

Instr: Dominique Bardet, M.A., *Appalachian State U.*; Hector Brasil-Laurenzo, M.A., *U. of California, Santa Barbara*; Joseph Burns, M.A., *Princeton U.*; José Delgado, M.A., *Indiana U.*; David Mayberry, M.A., *U. of California, Berkeley*; Anne Porter, M.A., *Middlebury College*; Barbara Reichenbach, M.A., *Kent State U.*; Sonja Taneska, M.A., *Ohio U.*; Josefina Williams, M.A., *Ohio U.*; Karin Wright, M.A., *Ohio U.*

Music

Prof: Ernest Bastin, M.M., *U. of Illinois*; Howard Beebe, M.S., *Juilliard School of Music*; Gail Berenson, M.M., *Northwestern U.*; Reginald Fink, Ph.D., *U. of Oklahoma*; David Lewis, Ph.D., *West Virginia U.*; Guy Remonko, M.M., *West Virginia U.*; Harold Robison, D.M.A., *U. of Michigan*; James Scholten, Ed.D., *U. of Michigan*; Robert Smith (emeritus, part-time), M.M., *Cincinnati Conservatory of Music*; Ronald Socciarelli (emeritus, part-time), M.M., *U. of Michigan*; Roger Stephens (director), M.M., *East Carolina U.*; Richard Syracuse, M.S., *Juilliard School of Music*; Richard Wetzell, Ph.D., *U. of Pittsburgh*; Dora J. Wilson, Ph.D., *U. of Southern California.*

Assoc. Prof: H. Joseph Butler, D.M.A., *Eastman School of Music*; Peggy A. Coddling, Ph.D., *Florida State U.*; Bert L. Damron, Ph.D., *Florida State U.*; Peter Jarjisan, D.M.A., *U. of Wisconsin, Madison*; Michael Kellogg, M.M., *Loyola U.*; Mark Phillips, D.M., *Indiana U.*; Allyn Reilly, Ph.D., *Northwestern U.*; James Stewart, Ph.D., *Ohio State U.*; Margene Stewart, M.F.A., *Ohio U.*; Sylvester Young, M.M., *Bowling Green State U.*; Ira Zook, D.M.A., *U. of Michigan.*

Asst. Prof: Nancy Beebe, M.M., *Ohio U.*; Milton Butler, M.M., *Texas Southern U.*; Donna Conaty, M.M., *Yale School of Music*; Kimo Furumoto, M.M., *Cleveland Institute of Music*; Pauline Gagliano, M.S., *U. of Illinois*; Mark Schroeder, M.M., *Cleveland Institute of Music*; Marjorie Bennett Stephens, M.M., *Ohio State U.*; C. Scott Smith, M.M., *Michigan State U.*

Nursing

Prof: Barbara K. Chapman (dean), Ph.D., *Ohio State U.*; Kathleen Rose-Grippa (director), Ph.D., *Stanford U.*

Asst. Prof: Maxine Cerra, Ph.D., *Ohio U.*; Sharon Denham, M.S.N., *Bellarmine*; Emily Harman, M.S.N., *West Virginia U.*; Sharon Mullen, Ph.D., *Ohio U.*; Carla Phillips, Ph.D., *Ohio State U.*; Martha Rock, Ph.D., *U. of Delaware*; Kathleen Tennant, Ph.D., *Ohio U.*

Ohio Program of Intensive English

Lect: Elizabeth Allen, M.A., *School for International Training*; John Bagnole, M.A., *Georgetown U.*; David Barkey, M.A., *Boston U.*; Brenda Bates, M.A., *Georgia State U.*; Linn Forhan, M.A., *Ohio U.*; Kathleen Hamington, M.A., *School for International Training*; Cynthia Holliday, M.A., *SUNY, Albany*; David Hopkins, M.A., *School for International Training*; Kristen Hubert, M.A., *Colorado State U.*; Jack Humbles, M.A., *Ball State U.*; Helen Huntley, M.A., *West Virginia U.*; Mary Kaye Jordan, M.A., *Ohio U.*; Gerald Krzic, M.A., *Ohio U.*; John McVicker, M.A., *Kansas U.*; Charles Mickelson, M.A., *Ohio U.*; John W. Miller, M.A., *School for International Training*; Patrick Miller, M.A., *Ohio U.*; Cornelia Perdreau, M.A., *Ohio U.*; John Riggles, M.A., *Southern Illinois U.*

College of Osteopathic Medicine

Basic Sciences

Prof: Jack Blazky, Ph.D., *Brown U.*; Joseph T. Eastman, Ph.D., *U. of Minnesota*; Robert S. Hikida, Ph.D., *U. of Illinois*; Peter Johnson, Ph.D., *U. of Birmingham*; Joseph Jollick, Ph.D., *West Virginia U.*; Ellengene Peterson, Ph.D., *U. of California, Riverside*; Michael Rowe, Ph.D., *U. of California, Riverside*; John M. Zook, Ph.D., *Duke U.*

Assoc. Prof: Huzoor Akbar, Ph.D., *Australian National U.*; Mary Chamberlin, Ph.D., *U. of British Columbia*; Robert Colvin, Ph.D., *Rutgers U.*; Walter Costello, Ph.D., *Boston U.*; Ralph A. DiCaprio, Ph.D., *U. of Alberta*; Kenneth Goodrum, Ph.D., *U. of Texas*; Oscar Heck, Ph.D., *Washington State U.*; William Henley, Ph.D., *Colorado State U.*; John Howell, Ph.D., *U. of California, Los Angeles*; Anne B. Loucks, Ph.D., *U. of California, Santa Barbara*; Louise Luckenbill, Ph.D., *Brown U.*; Malcolm C. Modrzakowski, Ph.D., *U. of Georgia*; Scott M. Moody, Ph.D., *U. of Michigan*; Finnie Murray, Ph.D., *U. of Florida*; Ronald Portanova, Ph.D., *Case Western Reserve U.*; Edwin C. Royland, Ph.D., *Wake Forest U.*; Robert S. Staron, Ph.D., *Ohio U.*; Leon C. Vince, Ph.D., *West Virginia U.*

Asst. Prof: Bonita Biegalka, Ph.D., *U. of Washington*; Aldrone Birkevicius, Ph.D., *Johns Hopkins U.*; Anthony Brown, Ph.D., *King's College*; William Holmes, Ph.D., *U. of California, Los Angeles*; Scott Hooper, Ph.D., *Brandeis U.*; Calvin B.L. James, Ph.D., *Howard U.*; Nobuyuki Kawabara, Ph.D., *Sophia U.*; Brent Palmer, Ph.D., *U. of Florida*

Instr: Mary C. Eastman, M.S., *Ohio U.*; Margaret Haremon, Ph.D., *Ohio U.*

Department of Family Medicine

Prof: John A. Broze, D.O., *Texas College of Osteopathic Medicine*; Anthony G. Chila, D.O., *Kansas City College of Osteopathic Medicine*; Frank H. Myers Jr., D.O., *College of Osteopathic Medicine and Surgery, Des Moines*; David A. Patrinquin (emeritus), part-time, D.O., *Philadelphia College of Osteopathic Medicine*; Judith W. Phoe, Ph.D., *Ohio U.*; Barbara Ross-Lee (dean), D.O., *Michigan State U. College of Osteopathic Medicine*

Assoc. Prof: David E. Brown, D.O., *Kansas City College of Osteopathic Medicine*; Peter B. Dane, D.O., *Michigan State U. College of Osteopathic Medicine*; William F. Duerfeldt (chair), D.O., *Kirksville College of Osteopathic Medicine*; Timothy J. Hogan, D.O., *University of New England College of Osteopathic Medicine*; David M. Johnson, D.O., *Kirksville College of Osteopathic Medicine*; Donna M. Mabry (part-time), Ph.D., *Ohio U.*; Daniel J. Marazon, D.O., *Kirksville College of Osteopathic Medicine*; Marjorie E. Nelson, M.D., *Indiana U. School of Medicine*; Lenard G. Presutti, D.O., *College of Osteopathic Medicine and Surgery, Des Moines*; Daniel J. Raub, D.O., *Philadelphia College of Osteopathic Medicine*; Gerald Rubin, D.O., *Philadelphia College of Osteopathic Medicine*; Anthony J. Tenaglia (part-time), D.O., *Kansas City College of Osteopathic Medicine*; Thomas A. Thesing, D.O., *College of Osteopathic Medicine and Surgery, Des Moines*; Richard W. Willy, D.O., *Kirksville College of Osteopathic Medicine*; John C. Wolf, D.O., *Kirksville College of Osteopathic Medicine*

Asst. Prof: Wayne R. Carlsen, D.O., *University of Medicine and Dentistry of New Jersey, School of Osteopathic Medicine*; Karl E. Harnish, D.O., *Chicago College of Osteopathic Medicine*; Raymond B. Shearer (part-time), D.O., *Kirksville College of Osteopathic Medicine*; Christopher Simpson (part-time), D.O., *Kirksville College of Osteopathic Medicine*; Martha A. Simpson (part-time), D.O., *Kirksville College of Osteopathic Medicine*; Scott E. Smith (part-time), D.O., *Ohio U. College of Osteopathic Medicine*; David N. Stroh, D.O., *Ohio U. College of Osteopathic Medicine*; Harold C. Thompson III, D.O., *Chicago College of Osteopathic Medicine*; Linda B. Tomc (part-time), D.O., *Ohio U. College of Osteopathic Medicine*

Department of Specialty Medicine

Prof: Jerome L. Axelrod, D.O., *Philadelphia College of Osteopathic Medicine*; J. Phillip Jones, D.O., *Kansas City College of Osteopathic Medicine*; Phillip D. Kinnard (part-time), M.D., *U. of Cincinnati College of Medicine*; Harvey C. Orth, Jr., D.O., *Kirksville College of Osteopathic Medicine*; Frederick W. Rente, D.O., *Philadelphia College of Osteopathic Medicine*

Assoc. Prof: Paul E. Cadamagnani, D.O., *Chicago College of Osteopathic Medicine*; Steven G. Carin, D.O., *Philadelphia College of Osteopathic Medicine*; William H. Carlson, D.O., *Kirksville College of Osteopathic Medicine*; J. Jack Chan, D.O., *Chicago College of Osteopathic Medicine*; C. Thomas Clark (chair), D.O., *College of Osteopathic Medicine and Surgery, Des Moines*; Richard H. Feeck, D.O., *Philadelphia College of Osteopathic Medicine*; James E. Foglesong, D.O., *Kirksville College of Osteopathic Medicine*; Kenneth P. Glinter, D.O., *College of Osteopathic Medicine and Surgery, Des Moines*; John S. Molea, D.O., *College of Osteopathic Medicine and Surgery, Des Moines*; W. Randolph Purdy, D.O., *Kirksville College of Osteopathic Medicine*; Michele K. Rivers, M.D., *Wayne State University School of Medicine*

Asst. Prof: Catherine Coates, D.O., *Ohio U. College of Osteopathic Medicine*; Gary Cordingly (part-time), M.D., *Duke U.*; Scott A. Jenkinson, D.O., *Ohio U. College of Osteopathic Medicine*; Robert Moore, D.O., *Kansas City College of Osteopathic Medicine*; Regine Neptune-Ceran, D.O., *Ohio U. College of Osteopathic Medicine*; Kendall Stewart (part-time), M.D., *Medical College of Georgia*; Michael Tomc, D.O., *Ohio U. College of Osteopathic Medicine*

Philosophy

Prof: Gene Blocker, Ph.D., *U. of California, Berkeley*; Donald Borchert (chair), Ph.D., *Princeton Theological Seminary*; Algis Mickunas, Ph.D., *Emory U.*; Albert Mosley, Ph.D., *U. of Wisconsin*; Charles Ping, Ph.D., *Duke U.*; Warren Ruchti, Ph.D., *U. of Pennsylvania*; David Stewart (provost), Ph.D., *Rice U.*

Assoc. Prof: John Bender, Ph.D., *Harvard U.*; Philip Ehrlich, Ph.D., *U. of Illinois*; Cynthia Hampton, Ph.D., *Northwestern U.*; Robert Trevas, Ph.D., *U. of Maryland*; George Weckman, Ph.D., *U. of Chicago*; Arthur Zucker, Ph.D., *U. of Minnesota*

Asst. Prof: Elizabeth Collins, Ph.D., *U. of California, Berkeley*; James Petrik, Ph.D., *Marquette U.*

Instr: Gregory Emery, Ph.D., *Temple U.*

Physical Therapy

Assoc. Prof: Cynthia C. Norkin (director), Ed.D., *Boston U.*

Asst. Prof: Dennis Cade, M.S.P.T., *Boston U.*; Gary S. Chleboun, M.S., *Duke U.*; Rosalind S. Hickenbottom, Ph.D., *Errory U.*; Marleen I. McClelland, Ph.D., *Ohio State U.*

Physics and Astronomy

Dist. Prof: Roger Finlay, Ph.D., *Johns Hopkins U.*; Jacobo Rapaport, Ph.D., *Massachusetts Institute of Technology*

Prof: Ronald Cappelletti, Ph.D., *U. of Illinois*; Charles Chen, Ph.D., *U. of Maryland*; James Dilley, Ph.D., *Syracuse U.*; Steven M. Grimes, Ph.D., *U. of Wisconsin, Madison*; Earle Hunt, Ph.D., *Rutgers U.*; David Onley, D. Phil., *Oxford U.*; Roger Rollins, Ph.D., *Cornell U.*; Edward Sanford, Ph.D., *Iowa State U.*; Folden Stumpf, Ph.D., *Illinois Inst. of Tech.*; Louis Wright (chair), Ph.D., *Duke U.*; Seung Yun, Ph.D., *Brown U.*

Assoc. Prof: Charles Briant, Ph.D., *U. of Texas, Austin*; Kenneth Hicks, Ph.D., *U. of Colorado*; Darrell Huwe, Ph.D., *U. of California, Berkeley*; David Ingram, Ph.D., *Salford U.*; Martin Kordes, Ph.D., *Case Western Reserve U.*; Sergio Ulloa, Ph.D., *SUNY, Buffalo*

Asst. Prof: Clyde Baker, M.S., *Ohio U.*; David Drabold, Ph.D., *Washington U.*; Charlotte Elster, Dr. rer. natl., *U. of Bonn*; Gerald Harp, Ph.D., *U. of Wisconsin, Milwaukee*

Political Science

Prof: Richard H. Bald (part-time), Ph.D., *U. of Michigan*; James F. Barnes, Ph.D., *Ohio State U.*; Edward Baum, Ph.D., *U. of California, Los Angeles*; David D. Dabelko, Ph.D., *U. of Illinois*; Felix V. Gagliano, Ph.D., *U. of Illinois*; Harold Molineux, Ph.D., *American U.*; Patricia Bayer Richard, Ph.D., *Syracuse U.*; Joseph B. Tucker, Ph.D., *U. of Illinois*; Thomas W. Walker, Ph.D., *U. of New Mexico*; Mark L. Weinberg, Ph.D., *U. of North Carolina*

Assoc. Prof: Delysa Burnier, Ph.D., *U. of Illinois*; Gary Hawes, Ph.D., *U. of Hawaii*; J. Franklin Henderson, Ph.D., *U. of Missouri*; Ronald J. Hunt, Ph.D., *Ohio State U.*; Sung Ho Kim, Ph.D., *Columbia U.*; Michael J. Mumper, Ph.D., *U. of Maryland*; Alexander V. Pringle, Ph.D., *Brown U.*; David L. Williams (chair), Ph.D., *Columbia U.*

Asst. Prof: John R. Gilliom, Ph.D., *U. of Washington*; Joy Huntley, Ph.D., *Duke U.*; Kathryn M. Lambert, Ph.D., *Temple U.*; Nancy J. Manning, Ph.D., *U. of Michigan*; Lewis A. Randolph, Ph.D., *Ohio State U.*; Takaaki Suzuki, Ph.D., *Columbia U.*; Patricia Wertsman, Ph.D., *Columbia U.*

Psychology

Prof: Margaret Appel, Ph.D., *U. of Denver*; Jack Arbutnot, Ph.D., *Cornell U.*; Hal Arkes, Ph.D., *U. of Michigan*; Francis Bellezza, Ph.D., *U. of Minnesota*; James Bruning (emeritus, part-time), Ph.D., *U. of Iowa*; Thomas Creer, Ph.D., *Florida State U.*; Jean Drevendstedt, Ph.D., *Vanderbilt U.*; John Garske, Ph.D., *U. of California, Berkeley*; Donald Gordon, Ph.D., *U. of Alabama*; Kenneth Holroyd, Ph.D., *U. of Miami*; Harry Kotses, Ph.D., *Michigan State U.*; Paul Lewis, Ph.D., *Bowling Green State U.*; Steven Lynn, Ph.D., *Indiana U.*; John McNamara, Ph.D., *U. of Georgia*; Gary Schumacher (chair), Ph.D., *Iowa State U.*; Lawrence Waters, Ph.D., *Ohio State U.*

Assoc. Prof: Mark Alicke, Ph.D., *North Carolina U.*; Linda Bellush, Ph.D., *U. of Florida*; Bruce Carlson, Ph.D., *U. of Michigan*; Christine Gidycz, Ph.D., *Kent State U.*; David Johnson, Ph.D., *Ohio State U.*; G. Daniel Lassiter, Ph.D., *U. of Virginia*; Jerome Maurath (part-time), Ph.D., *U. of Illinois*; Danny Moates, Ph.D., *Vanderbilt U.*; Paula Popovich, Ph.D., *Michigan State U.*

Asst. Prof: Peter Chen, Ph.D., *U. of South Florida*; Christopher France, Ph.D., *McGill U.*; Paul Gleason (part-time), Ph.D., *Penn State U.*; Jeanne Heaton (part-time), Ph.D., *Ohio U.*; Marcos Ionescu, Ph.D., *CUNY*; Steven Jones (visiting), Ph.D., *U. of Oregon*; Benjamin Ogles, Ph.D., *Brigham Young U.*; Gary Sarver, Ph.D., *U. of Florida*.

Instr: James Short (part-time), M.A., *Ohio U.*; Susan Tice, M.S., *Ohio U.*

Recreation and Sport Sciences

Prof: James A. Lavery (emeritus, part-time), P.E.D., *Indiana U.*

Assoc. Prof: Tiff E. Cook, Ph.D., *Walden U.*; Keith D. Ernce (director), Ph.D., *U. of New Mexico*; Charles R. Higgins (emeritus, part-time), Ed.D., *U. of North Carolina, Greensboro*; John McComb (emeritus, part-time), M.Ed., *Boston U.*; Sue Ellen Miller, P.E.D., *Indiana U.*; Owen J. Wilkinson (emeritus, part-time), Ph.D., *Walden U.*

Asst. Prof: Catherine Brown, Ph.D., *Ohio State U.*; Susan Bullard, Ph.D., *U. of Wisconsin*; Ronald Dingle, M.S.P.E., *U. of Massachusetts*; Roger Gilders, Ph.D., *Ohio U.*; Peggy Holmes, Ph.D., *U. of Illinois*; David Jacoby, Ph.D., *Ohio U.*; Joyce King (emerita, part-time), Ph.D., *Ohio State U.*; Robin Mittelstaedt, Ph.D., *U. of Oregon*; Lynn Simon (emerita, part-time), P.E.D., *Indiana U.*; Beth VanDerveer, Ph.D., *Texas Woman's U.*; Ronald Whitaker, M.S.Ed., *Ohio U.*

Instr: Carol Ault (part-time), M.S., *Ohio U.*; John Bowman (part-time), M.S.Ed., *U. of Virginia*; Sue Hammond (part-time), M.S., *Ohio U.*; Jennifer Kafsky (part-time), M.S.P.E., *Ohio U.*; Thomas Murray (part-time), M.A., *Ohio U.*; Sharon Noel (part-time), M.S.P.E., *Ohio U.*; William Sells (part-time), M.S.Ed., *Ohio U.*; Charles Vosler (part-time), M.A.Ed., *Ball State U.*

Social Work

Assoc. Prof: Miriam Clubok, M.S.W., *Wayne State U.*; Thomas Oellerich, Ph.D., *Case Western Reserve U.*; Carolyn Tice (chair), D.S.W., *U. of Pennsylvania*.

Asst. Prof: Richard W. Greenlee, Ph.D., *Ohio State U.*

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Ohio Residency

It is the responsibility of the student to report a change of address and/or residency from an Ohio resident to a non-Ohio resident at the Office of Student Records. If the student's residency has changed to an Ohio resident, he or she must file a residency petition with the Office of Admissions. No change of residency can be made until the residency petition has been approved by the University examiner. Questions concerning residency should be directed to the University examiner in the Office of Admissions.

The residency rules described below were adopted by the Ohio Board of Regents effective November 1, 1989. The rules are subject to change without notice by the Ohio Board of Regents or the Ohio General Assembly.

A Intent and Authority

1 It is the intent of the Ohio Board of Regents in promulgating this rule to exclude from treatment as residents, as that term is applied here, those persons who are present in the state of Ohio primarily for the purpose of receiving the benefit of a state-supported education.

2 This rule is adopted pursuant to Chapter 119 of the Revised Code, and under the authority conferred upon the Ohio Board of Regents by Section 3333.31 of the Revised Code. Effective date: November 1, 1989.

B Definitions

For purposes of this rule:

1 A "resident of Ohio for all other legal purposes" shall mean any person who maintains a twelve-month place or places of residence in Ohio, who is qualified as a resident to vote in Ohio and receive state welfare benefits, and who may be subjected to tax liability under Section 5747.02 of the Revised Code, provided such person has not, within the time prescribed by this rule, declared himself or herself to be or allowed himself or herself to remain a resident of any other state or nation for any of these or other purposes.

2 "Financial support" as used in this rule, shall not include grants, scholarships, and awards from persons or entities which are not related to the recipient.

3 An "institution of higher education" as used in this rule shall mean any university, community college, technical institute or college, general and technical college, medical college, or private medical or dental college which receives a direct subsidy from the state of Ohio.

4 For the purpose of determining residency for tuition surcharge purposes at Ohio's state-assisted colleges and universities, "domicile" is a person's permanent place of abode: there must exist a demonstrated intent to live permanently in Ohio, and a legal ability under federal and state law to reside permanently in the state. For the purpose of this policy, only one (1) domicile may be maintained at a given time.

5 For the purpose of determining residency for tuition surcharge purposes at Ohio's state-assisted colleges and universities, an individual's immigration status will not preclude an individual from obtaining resident status if that individual has the current legal status to remain permanently in the United States.

C Residency for subsidy and tuition surcharge purposes

The following persons shall be classified as residents of the state of Ohio for subsidy and tuition surcharge purposes:

1 A dependent student, at least one of whose parents or legal guardian has been a resident of the state of Ohio for all other legal purposes for twelve consecutive months or more immediately preceding the enrollment of such student in an institution of higher education.

2 A person who has been a resident of Ohio for the purpose of this rule for at least twelve consecutive months immediately preceding his or her enrollment in an institution of higher education and who is not receiving, and has not directly or indirectly received in the preceding twelve consecutive months, financial support from persons or entities who are not residents of Ohio for all other legal purposes.

3 A dependent child of a parent or legal guardian, or the spouse of a person who, as of the first day of a term of enrollment, has accepted full-time, self-sustaining employment and established domicile in the state of Ohio for reasons other than gaining the benefit of favorable tuition rates.

Documentation of full-time employment and domicile shall include both of the following documents:

a a sworn statement from the employer or the employer's representative on the letterhead of the employer or the employer's representative certifying that the parent or spouse of the student is employed full-time in Ohio.

b a copy of the lease under which the parent or spouse is lessee and occupant of rented residential property in the state; a copy of the closing statement on residential real property located in Ohio of which the parent or spouse is the owner and occupant; or if the parent or spouse is not the lessee or owner of the residence in which he or she has established domicile, a letter from the owner of the residence certifying that the parent or spouse resides at that residence.

D Additional criteria which may be considered in determining residency for the purpose may include but are not limited to the following:

1 Criteria evidencing residency:

a if a person is subject to tax liability under Section 5747.02 of the Revised Code;

b if a person qualifies to vote in Ohio;

c if a person is eligible to receive state welfare benefits;

d if a person has an Ohio driver's license and/or motor vehicle registration.

2 Criteria evidencing lack of residency:

a if a person is a resident or intends to be a resident of another state or nation for the purposes of tax liability, voting, receipt of welfare benefits, or student loan benefits (if the student qualified for that loan program by being a resident of that state or nation);

b if a person is a resident or intends to be a resident of another state or nation for any purpose other than tax liability, voting, or receipt of welfare benefits. (See paragraph 2., a. of this rule.)

E Exceptions to the general rule of residency for subsidy and tuition purposes

1 A person who is living and is gainfully employed on a full-time or part-time and self-sustaining basis in Ohio and who is pursuing a part-time program of instruction at an institution of higher education shall be considered a resident of Ohio for these purposes.

2 A person who enters and currently remains upon active duty status in the United States military service while a resident of Ohio for all other legal purposes and his or her dependents shall be considered residents of Ohio for these purposes as long as Ohio remains the state of such person's domicile.

3 A person on active duty status in the United States military service who is stationed and resides in Ohio and his or her dependents shall be considered residents of Ohio for these purposes.

4 A person who is transferred by his or her employer beyond the territorial limits of the fifty states of the United States and the District of Columbia while a resident of Ohio for all other legal purposes and his or her dependents shall be considered residents of Ohio for these purposes as long as Ohio remains the state of such person's domicile as long as such person has fulfilled his or her tax liability to the state of Ohio for at least the tax year preceding enrollment.

5 A person who has been employed as a migrant worker in the state of Ohio and his or her dependents shall be considered a resident for these purposes, provided such person has worked in Ohio at least four months during each of the three years preceding the proposed enrollment.

F Procedures

1 A dependent person classified as a resident of Ohio for these purposes under the provisions of paragraph (C) (1) of this rule and who is enrolled in an institution of higher education when his or her parents or legal guardian removes their residency from the state of Ohio shall continue to be considered a resident during continuous full-time enrollment and until his or her completion of any one academic degree program.

2 In considering residency, removal of the student or the student's parents or legal guardian from Ohio shall not, during a period of twelve months following such removal, constitute relinquishment of Ohio residency status otherwise established under paragraph (C) (1) or (C) (2) of this rule.

3 For students who qualify for residency status under paragraph (C) (3) of this rule, residency status is lost immediately if the employed person upon whom resident student status was based accepts employment and establishes domicile outside Ohio less than twelve months after accepting employment and establishing domicile in Ohio.

4 Any person once classified as a nonresident, upon the completion of twelve consecutive months of residency, must apply to the institution he or she attends for reclassification as a resident of Ohio for these purposes if such person in fact wants to be reclassified as a resident. Should such person present clear and convincing proof that no part of his or her financial support is or in the preceding twelve consecutive months has been provided directly or indirectly by persons or entities who are not residents of Ohio for all other legal purposes, such person shall be reclassified as a resident.

5 Any reclassification of a person who was once classified as a nonresident for these purposes shall have prospective application only from the date of such reclassification.

6 Any institution of higher education charged with reporting student enrollment to the Ohio Board of Regents for state subsidy purposes and for assessing the tuition surcharge shall provide individual students with a fair and adequate opportunity to present proof of his or her Ohio residency for purposes of this rule. Such an institution may require the submission of affidavits and other documentary evidence which it may deem necessary to a full and complete determination under this rule.

Student Records Policy

Underlying Principles

Ohio University's commitment to its educational mission and to the students and society it is obligated to serve demands that it maintain various records. No education records will be maintained that are not directly related to the basic purposes of the University. All policies and practices governing the collection, maintenance, review, and release of records will be based upon the principles of confidentiality and the student's right to privacy, consistent with the Family Educational Rights and Privacy Act of 1974. This policy shall govern the collection, maintenance, review, and release of student records on the Athens and regional campuses of Ohio University. A student is herein defined to mean any person for whom the University maintains education records or personally identifiable information, but does not include a person who has not been in attendance at the University or any of its regional campuses.

Types of Records

The University recognizes two general types of records: education records and unofficial records.

A Education Records

Education records are those records which are directly related to a present or former student in any form (e.g., print, electronic, microfilm, etc.), which contain information directly related to a present or former student, and which are maintained by the University or by a person acting for the University. Education records shall be subject to the principles regarding collection, maintenance, review, and release which are described below.

Education records include, but are not limited to, the following:

- 1 Admissions records maintained by the Office of Admissions, the College of Osteopathic Medicine, and the Office of Graduate Student Services. The director of admissions, the dean of the College of Osteopathic Medicine, or the associate provost for graduate and research programs are the official custodians of these records;
- 2 Academic records maintained by the dean of the student's college, academic departments; the Registrar's Office; and the Office of Lifelong Learning. The registrar, the deans of the colleges, or the chairpersons of the departments are the official custodians of these records;
- 3 Disciplinary records maintained by the University Judiciaries. The director of Judiciaries is the official custodian of these records;
- 4 Financial aid and student employment records maintained by the Office of Student Financial Aid and Scholarships. The director of the Office of Student Financial Aid and Scholarships is the official custodian of these records;
- 5 Placement records maintained by the Office of Career Services. The director of Career Services is the official custodian of these records;
- 6 Housing records, including contract and lease agreements, maintained by the Housing Office. The director of Housing is the official custodian of these records;
- 7 Financial records by offices which initiate, collect, and record fees assessed and paid;
- 8 International student records. The director of International Student and Faculty Services is the custodian of these records;

9 Any and all other records not specifically designated as unofficial records under subsection b., maintained by a University office or agency as essential to fulfilling the basic purpose and responsibility of the office or agency. The University official responsible for that office or agency is the official custodian of these records.

B Unofficial Records

Unofficial records include:

- 1 Records of institutional, supervisory, and administrative personnel, and faculty and educational personnel ancillary thereto which are in the sole possession of the maker thereof and which are not accessible by or revealed to any other person except a substitute. A substitute means an individual who performs on a temporary basis the duties of the individual who made the record and does not refer to an individual who permanently succeeds the maker of the records in his or her position;
- 2 Records and documents of the Department of Campus Safety, provided that the records and documents are kept apart from the records described in subsection a. of this section, which are maintained solely for law enforcement purposes, and which are not available to persons other than law enforcement officials of the same jurisdiction or other University law enforcement personnel;
- 3 In the case of persons who are employed by the University but who are not in attendance, records made and maintained in the normal course of business which are related exclusively to such person in his or her capacity as an employee and which are not available for use for any other purpose;
- 4 Records which are created or maintained by a physician, psychiatrist, psychologist, or other recognized professional or paraprofessional acting in his or her professional capacity, and which are created, maintained, or used only in connection with the provision of treatment to the student, and which are not available to anyone other than persons providing such treatment; provided, however, that such records can be personally reviewed upon written notice by the student, by a physician, or by other appropriate professional of the student's choice;
- 5 Directory information, including the student's name, address, telephone number, date and place of birth, major field of study, participation in officially recognized activities and sports, weight and height of members of athletic teams, dates of attendance, degrees and awards received, most recent previous educational agency or institution attended by the student, and other similar information; subject, however, to the limitation stated under the Release of Student Records section below.

Maintenance of Records

Education records shall be maintained only by University administrative personnel assigned responsibility for each of the types of records listed in the Types of Records section above. All University personnel involved in the handling and maintenance of education records shall be instructed concerning the confidential nature of such information and their responsibilities regarding it, pursuant to this policy and the Family Educational Rights and Privacy Act of 1974. This instruction should be a part of each office's orientation procedure.

Persons Authorized to Place Materials in Records Files

Only the following qualified persons are permitted to place information in an education records file: personnel in the office or agency responsible for maintaining the files, and the individual student or others at the request of and, therefore, with the consent of the student.

Challenging or Removing File Contents

A student has the right to a formal hearing, pursuant to and in compliance with sections 99.20 through 99.22 of the Regulations to the Family Educational Rights and Privacy Act of 1974, to challenge the content of such student's education records in order to ensure that the records are not inaccurate, misleading, or otherwise in violation of the privacy or other rights of students, and to provide an opportunity for the correction or deletion of any such inaccurate, misleading, or otherwise inappropriate data contained therein, and to insert into such records a written explanation respecting the content of such records.

However, the student shall first attempt to informally resolve his or her grievance through the department chair, dean of his or her college, or, in the case of other records, through the administrative officer responsible for maintaining the records. The office responsible for maintaining the records may charge a reasonable fee, but not more than \$2 per page, for the reproduction of the records. The department chair, dean, or administrative officer, after careful review of the facts surrounding the challenge, shall inform the student, in writing and within five (5) days after the student presents the challenge, of his or her decision and any corrective action that will be taken.

If the student is dissatisfied with the results of his or her informal challenge through the department chair, dean, or administrative officer, he or she shall then file a formal complaint.

Student Access to Records

A student who is or has been in attendance at Ohio University shall have the right to inspect and review the contents of his or her education records, subject only to reasonable arrangements concerning time, place, supervision, and cost of reproduction of the records; but in no case shall the time be more than thirty (30) days after a request has been made. Costs of each reproduction shall not be greater than \$2 per page. Exceptions to this general right of review are:

- a Confidential financial records of the student's parents or any information contained therein;
- b Confidential letters and statements of recommendation, which were placed in the education records prior to January 1, 1975, as long as such letters or statements are not used for purposes other than those for which they were specifically intended, as determined by the administrative officer responsible for the office or agency where the record is kept;
- c Unauthorized access to computer/electronic files;
- d If the student has signed a waiver of the student's right of access under this section and the Family Educational Rights and Privacy Act of 1974, confidential recommendations respecting admission to any educational agency or institution, respecting an application for employment, or respecting the receipt of an honor or honorary recognition.

A student or a person applying for admission may waive his or her right of access to confidential statements described in subsection b. of this section, except that such waiver shall apply to recommendations only if the student is, upon request, notified of the names of all persons making confidential recommendations, and such recommendations are used solely for the purpose for which they were specifically intended. The student may revoke, in writing, the previous waiver of his or her right to access to confidential statements or recommendations. Such revocation shall only apply to confidential statements or recommendations placed in the record after the waiver has been revoked. Such waivers may not be required as a condition for admission to, receipt of financial aid from, or receipt of any other services or benefits from the University.

Release of Student Records

Student records at Ohio University are held in trust by the University for the mutual benefit of the student and the educational mission of the University. Therefore, except with the prior written consent of the student, or as otherwise stated below, no information in any student education record file may be released to any individuals or organization.

- a Record-keeping personnel may have access to student education records according to the conditions stipulated in the Maintenance of Records section above.
- b Members of the faculty and staff and other persons demonstrating a legitimate educational interest may have access to student education records for internal educational purposes or for necessary administrative and statistical purposes only. The legitimate educational interest will be determined by the University official responsible for the particular student's education record. Legitimate educational interest is used here in its traditional and classical sense. It means that, in order to serve students and the University, careful, considerate, and responsible judgments must be made by professional people who are responsible and accountable for these judgments. The rights of grievance and appeal are available to the student through the responsible official.
- c Direct access to financial, medical, psychological, and personnel files is limited to the professional and medical staff responsible for those matters.

d The following information will be considered public and may be published in a University publication: the student's name, address, telephone number, date and place of birth, major field of study, participation in officially recognized activities and sports, weight and height of members of athletic teams, dates of attendance, degrees and awards received, the most recent previous educational agency or institution attended by the student, and other similar information. Relative to such public or directory information, the University shall give public notice of the categories of information which shall be considered public information, and shall allow a reasonable period of time after such notice has been given for a student to inform the University that all of the information designate should not be released without the student's prior consent.

e Direct access to disciplinary files is limited to the staff of the Office of Judicial Affairs and the Office of Legal Affairs, and the dean of students and his or her immediate staff. This section shall not be construed so as to prohibit the Office of Legal Affairs from advising appropriate University offices that demonstrate a legitimate educational interest in the facts and disposition of a particular disciplinary case, nor shall it be construed so as to prohibit the Office of Judicial Affairs from advising any person demonstrating a need to know as to whether a disciplinary file does or does not exist.

f Medical and psychological information is legally confidential and privileged. It will not be released to anyone without the express written authorization of the individual involved. In such cases, the individual must designate what information is to be released and to whom that information is to be released.

g Notwithstanding the provisions of subsections a-f of this section:

1 Education records will be released on compliance with a judicial order, or pursuant to any lawfully issued subpoena, upon condition that the student is reasonably notified of all such orders or subpoenas in advance of the compliance therewith by the University.

2 Records, or information from records containing personally identifiable information, may be made available to officials of other schools or school systems in which the student seeks or intends to enroll, upon condition that the student be notified of the transfer, receive a copy of the records if desired, and has an opportunity for a hearing to challenge the content of the record.

3 Records or information from records containing personally identifiable information may be released in connection with a student's application for, or receipt of, financial aid.

4 Records or information from records may be released to the parents of a dependent student, as defined in Section 152 of the Internal Revenue Code of 1954. The University presumes for this purpose only that all students are independent. The parents of a student have the burden to show dependent status as defined in Section 152 of the Internal Revenue Code of 1954.

5 Records or information from records may be released to the categories of persons or institutions designated in Section 438(b)(1)(C), 438(b)(1)(E), and 439(b)(3) of the Family Educational Rights and Privacy Act of 1974, and sections 99.30(a)(2), and 99.31 through 99.36 of the regulations thereto.

6 Records or information from records may be released to organizations conducting studies for, or on behalf of, educational agencies or institutions for the purpose of developing, validating, or administering predictive tests, and administering student aid programs and improving instruction, if such studies are conducted in such a manner as will not permit the personal identification of students and their parents by persons other than representatives of such organization and such information will be destroyed when no longer needed for the purposes for which it was released.

7 Records or information from records may be released to accrediting organizations in order to carry out their accrediting functions.

8 Records or information from records may be released to appropriate persons if the knowledge of such information is necessary to protect the health or safety of the student or other persons.

9 The University officials responsible for implementing the Student Records Policy and ensuring compliance with the Family Educational Rights and Privacy Act of 1974 are the vice president for administration with the assistance of the dean of students and the director of legal affairs. The University ombudsman may examine all education records of a student upon authorization by the student or the director of legal affairs.

Record of Access

Each office shall keep with the education records of each student a record which will specifically indicate the legitimate interest that each such person, agency, or organization, other than other school officials and persons designated in the Release of Student Records section above, has in obtaining this information. Such record of access shall be available only to the student, the school official, and his or her assistants who are responsible for the custody of such records, and to persons or organizations authorized to conduct an audit pursuant to the Family Educational Rights and Privacy Act of 1974. The record should include the name of the individual or agency requesting information, reason for the request, date of the request, and the disposition of the request. The office responsible for the records shall, upon a written request by the student, provide a copy of the records disclosed and charge the appropriate fees therefore. Education records or information therefrom shall be transferred to a third party only on the condition that such party will not permit any other party to have access to such information without the written consent of the student.

Retention of Records

Each record-keeping office will establish and make available a reasonable and justifiable policy regarding the retention of records after the separation of the student from the University. Where legal statutes govern retention, such policies shall be in accordance with those statutes.

Holds on Release of Records

Unmet University financial obligations, or pending disciplinary cases, may result in a hold being placed on the release of student records. The office originating the hold must inform the student in writing that it has initiated such action. Copies of hold notices will be maintained by the originating office or agency and will serve as verification that written notification has been provided to the student.

Incorporation of Federal Law

The Family Educational Rights and Privacy Act of 1974, and the regulations enacted in pursuance thereof, are hereby incorporated by reference into this policy; and, to the extent that this policy conflicts with the law and/or regulations, the law and/or regulations shall take precedence.

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